

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

The United Kingdom (UK) has left the European Union (EU) officially on 31/01/2020, however the classification and labelling regime is still based on the existing EU regulatory regime during a transition period to provide continuity for businesses. Therefore this document is still aligned on EU standards to ensure the safe use of the substance. It will be updated as the UK publishes new classification and labelling regulation diverging from the legal framework currently applied.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name AUGEO® CLEAN MULTI

Chemical name Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane

CAS-No. 100-79-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture

- Cleaning agent
- Waxes
- Stain removers and waxes removers
- Glass cleaner
- diluent and vehicle for fragrances

Remarks

- For professional and industrial installation and use only.

1.3 Details of the supplier of the safety data sheet

Company

Imperial Supply Ltd. Common Lane, Industrial Estate, Kenilworth, CV8 2EL, United Kingdom Tel: +44 1926 291009 support@craftovator.co.uk

E-mail address

info@craftovator.co.uk

1.4 Emergency telephone number

+44 1926 291009

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

GB Harmonized System of Classification and Labelling of Chemicals (GB CLP)

Pictogram



Signal word

- Warning

Hazard statements

- H319 Causes serious eye irritation.

Precautionary statements

Prevention

P264
 P280
 Wash skin thoroughly after handling.
 Wear eye protection/ face protection.

Response

P305 + P351 + P338
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

- P337 + P313 If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

3.1 Substance

Chemical name
 Synonyms
 Formula
 Racemic mixture (+/-)-2,2-dimethyl-4-hydroxymethyl-1,3-dioxolane
 (+/-)-2,2-dimethyl-1,3-dioxolane-4-methanol, Isopropylidene glycerol
 C6H12O3

Information on Components and Impurities

Chemical name	Identification number	Classification Regulation (EC) No 1272/2008	Concentrati on [%]
2,2-dimethyl-1,3-dioxolan-4-ylmethanol	CAS-No. : 100-79-8 EINECS-No. : 202-888-7	Eye irritation, Category 2; H319	>= 99 - <= 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

- First aider needs to protect himself.
- Show this safety data sheet to the doctor in attendance.
- Place affected clothing in a sealed bag for subsequent decontamination.
- When symptoms persist or in all cases of doubt seek medical advice.

In case of inhalation

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

- Quickly move the person away from the contaminated area. Make the affected person rest.
- Obtain medical attention.

In case of skin contact

- Wash off immediately with plenty of water for at least 15 minutes.
- Use appropriate protective equipment when treating a contaminated person.
- In case of inflammation (redness, irritation, ...) obtain medical attention.

In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Keep eye wide open while rinsing.
- Always obtain medical advice, even if there are no symptoms.

In case of ingestion

- Do NOT induce vomiting.
- Obtain medical attention.
- Do not give anything to drink.

4.2 Most important symptoms and effects, both acute and delayed

Effects

- Chronic exposure may cause dermatitis.
- May cause irreversible eye damage.
- Loss of the eye

Symptoms

- Redness
- Swelling of tissue
- Causes skin burns.
- Lachrymation
- Conjunctivitis
- Causes eye burns.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- Burns must be treated by a physician.
- Contact a poison control center.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

- Extinguishing media small fires
- Water spray
- Multi-purpose powders
- Carbon dioxide (CO2)
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Extinguishing media large fires
- Water spray
- Multi-purpose powders
- Alcohol Resistant Aqueous Film Forming Foam (AR-AFFF)
- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

- Do not use a solid water stream as it may scatter and spread fire.
- High volume water jet

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting

- Combustible liquid.
- The pressure in sealed containers can increase under the influence of heat.
- Hazardous decomposition products formed under fire conditions.
- High concentrations of toxic or harmful products may remain in the residual liquid once the fire has been extinguished.
- Under fire conditions:
- Will burn
- On combustion, toxic gases are released.

Hazardous combustion products:

- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for firefighters

- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- In the event of fire, wear self-contained breathing apparatus.
- For further information refer to section 8 "Exposure controls/personal protection".

Specific fire fighting methods

- Stay upwind.
- Fight fire with normal precautions from a reasonable distance.
- Do not use a solid water stream as it may scatter and spread fire.
- Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool containers/tanks with water spray.
- Do not use a solid water stream as it may scatter and spread fire.

Further information

- Evacuate personnel to safe areas.
- Intervention only by capable personnel who are trained and aware of the hazards of the product.
- Never approach containers which have been exposed to fire, without cooling them sufficiently.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid inhalation, ingestion and contact with skin and eyes.
- Wear chemical resistant personal protective equipment
- Wear suitable gloves.
- Wear suitable protective clothing.
- Wear as appropriate:
- Face-shield

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

- Tightly fitting safety goggles
- In the case of dust or aerosol formation use respirator with an approved filter.
- In the case of vapour formation use a respirator with an approved filter.
- Eliminate all ignition sources if safe to do so.
- Stop leak if safe to do so.
- For further information refer to section 8 "Exposure controls/personal protection".

6.2 Environmental precautions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and materials for containment and cleaning up

- No sparking tools should be used.
- Stop leak if safe to do so.
- Dam up with sand or inert earth (do not use combustible materials).
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
- Shovel or sweep up.
- Keep in suitable, closed containers for disposal.
- Never return spills in original containers for re-use.
- Dispose of in accordance with local regulations.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Wear suitable protective clothing.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Avoid splashes.
- Avoid formation of aerosol.
- For personal protection see section 8.
- Containers must be bonded and grounded when pouring or transferring material.
- This material contains a flammable or combustible liquid and vapor.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Keep locked up or in an area accessible only to qualified or authorised persons.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer
- Observe the general rules of industrial fire protection.
- Areas containing this material should have fire safe practices and electrical equipment in accordance with applicable regulations and/or guidelines. Standards are primarily based on the material`s flashpoint, but may also take into account properties such as miscibility with water or toxicity. All local and national regulations should be followed. In the Americas, National Fire Protection Association (NFPA) 30: Flammable and Combustible Liquids Code, is a widely used standard. NFPA 30 establishes storage conditions for the following classes of materials: Class I Flammable Liquids, Flashpoint <37.8 °C. Class II Combustible Liquids, 37.8 °C < Flashpoint <60 °C. Class IIIa Combustible Liquids, Flashpoint > 93 °C.
- Keep away from sources of ignition No smoking.

Packaging material

Suitable material

- Unlined steel
- Plastic container of HDPE

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- Contains no substances with occupational exposure limit values above their regulatory reporting threshold.

8.2 Exposure controls

Control measures

Engineering measures

- Effective exhaust ventilation system
- Ensure adequate ventilation.
- Extract at emission point.
- Ensure that extracted air cannot be returned to the workplace through the ventilation system.
- Avoid splashes.
- Avoid formation of aerosol.

Individual protection measures

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Respiratory protection

- This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
- Use a respirator with an approved filter if a risk assessment indicates this is necessary.
- Keep in a well-ventilated place.

Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

Eye protection

- Tightly fitting safety goggles
- Face-shield
- Chemical resistant goggles must be worn.
- Tightly fitting safety goggles

Skin and body protection

- Full protective suit
- Footwear protecting against chemicals
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Impervious clothing
- Change working clothes after each workshift.
- Contaminated work clothing should not be allowed out of the workplace.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Use clean, well-maintained personal protection equipment.
- Regular cleaning of equipment, work area and clothing.
- When using do not eat, drink or smoke.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash hands before breaks and immediately after handling the product.
- Contaminated work clothing should not be allowed out of the workplace.
- The user is responsible for monitoring the working environment in accordance with local laws and regulations.

Protective measures

- Emergency equipment immediately accessible, with instructions for use.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
- The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Environmental exposure controls

- Dam up.
- Prevent product from entering sewage system.
- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.
- Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Prevent further leakage or spillage if safe to do so.
- Contain the spilled material by bunding.
- The product should not be allowed to enter drains, water courses or the soil.
- Dispose of rinse water in accordance with local and national regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

<u>Colour</u> colourless

<u>Odour</u> slight

Odour Threshold No data available

Melting point/freezing point Freezing point: -99 °C

Initial boiling point and boiling range Boiling point/boiling range: 183 - 191 °C (1,013.25 hPa)

Flammability (solid, gas) No data available

Flammability (liquids) No data available

Flammability/Explosive limit No data available

Flash point 91 °C closed cup

100 °C open cup

<u>Auto-ignition temperature</u> No data available

Decomposition temperature No data available

pH Not applicable

<u>Viscosity</u>, <u>dynamic</u>: 11 mPa.s (20 °C)

<u>Solubility</u> Water solubility:

(20 °C)completely soluble

Solubility in other solvents:

Alcohol: miscible

Esters: miscible

Ether: miscible

Aromatic hydrocarbons: miscible

petroleum ether.: miscible

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

petrol: miscible

<u>Partition coefficient: n-octanol/water</u> No data available

Vapour pressure 0.05 hPa (20 °C)

<u>Density</u> 1.0670 g/cm3 (20 °C)

Relative density 1.069 (20 °C)

Relative vapor density 2.6

<u>Particle characteristics</u> No data available

Evaporation rate (Butylacetate = 1) 0.027

9.2 Other information

Self-ignition 390 °C (1,013 hPa)

Method: EU Test Guideline A15

Surface tension 33.5 mN/m (20 °C)

Molecular weight 132.16 g/mol

SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable at normal ambient temperature and pressure.

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

- Keep away from open flames, hot surfaces and sources of ignition.
- Avoid high temperatures.
- Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids
- On contact with acid releases:
- Acetone

10.6 Hazardous decomposition products

- On combustion or on thermal decomposition (pyrolysis) releases:
- Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Acute oral toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LD50: 7,000 mg/kg - Rat

Not classified as hazardous for acute oral toxicity according to GHS.

Published data

Acute inhalation toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LC50 - 4 h (aerosol): > 5.11 mg/l - Rat, male and female

Method: OECD Test Guideline 403

Not classified as hazardous for acute inhalation toxicity according to GHS.

No mortality observed at this concentration.

Unpublished reports

Acute dermal toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

LD50: > 2,000 mg/kg - Rat, male and female

Method: OECD Test Guideline 402

Not classified as hazardous for acute dermal toxicity according to GHS.

Semiocclusive

No mortality observed at this dose.

Unpublished reports

Acute toxicity (other routes of

administration)

No data available

Skin corrosion/irritation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

No skin irritation

Method: OECD Test Guideline 404

Semiocclusive Unpublished reports

Serious eye damage/eye irritation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Rabbit

Causes serious eye irritation. Method: OECD Test Guideline 405

Unpublished reports

Respiratory or skin sensitisation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Maximisation Test - Guinea pig Responding animals in GPMT < 30% Method: OECD Test Guideline 406

Unpublished reports

Mutagenicity

Genotoxicity in vitro

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Ames test

with and without metabolic activation

negative

Method: OECD Test Guideline 471

Unpublished reports

Gene mutation assays in mammalian cells.

Strain: mouse lymphoma cells with and without metabolic activation

negative

Method: OECD Test Guideline 490

Unpublished reports

Genotoxicity in vivo

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

In vivo micronucleus test - Mouse

male

Intraperitoneal route

Method: OECD Test Guideline 474

negative

Unpublished reports

Carcinogenicity

No data available

Toxicity for reproduction and development

Toxicity to reproduction/Fertility

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Reproduction/developmental toxicity screening test - Rat, male and female, Oral

General Toxicity - Parent NOAEL: 1,000 mg/kg bw/day

Fertility NOEL: 1,000 mg/kg bw/day

General Toxicity F1 NOEL: 1,000 mg/kg bw/day

OECD Test Guideline 422

Gavage, Highest dose tested, no impairment of fertility has been observed,

Unpublished reports

One-Generation Reproduction Toxicity Study - Rat, male and female, Oral

General Toxicity - Parent NOAEL: 1,000 mg/kg bw/day

Fertility NOAEL Parent: 1,000 mg/kg bw/day

General Toxicity F1 NOAEL: 1,000 mg/kg bw/day

Fertility NOAEL F1: 1,000 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1,000 mg/kg bw/day

General Toxicity F2 NOAEL: 1,000 mg/kg bw/day Developmental Toxicity NOAEL F2: 1,000 mg/kg bw/day

OECD Test Guideline 443

Gavage, Highest dose tested, no impairment of fertility has been observed,

Unpublished internal reports

Developmental Toxicity/Teratogenicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Pre-natal - Rat, male and female, Oral

General Toxicity Maternal NOAEL: 1,000 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1,000 mg/kg bw/day

Method: OECD Test Guideline 414

Gavage, Highest dose tested, no teratogenic effects have been observed,

Unpublished reports

Pre-natal - Rabbit, female, Oral

General Toxicity Maternal NOAEL: 300 mg/kg bw/day

Developmental Toxicity NOAEL F1: 1,000 mg/kg bw/day

Method: OECD Test Guideline 414

Gavage, Highest dose tested, no teratogenic effects have been observed,

Unpublished internal reports

STOT

STOT - single exposure

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

The substance or mixture is not classified as specific target organ toxicant, single

exposure according to GHS criteria.

internal evaluation

STOT - repeated exposure

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The substance or mixture is not classified as specific target organ toxicant,

repeated exposure according to GHS criteria.

internal evaluation

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Oral 5 Weeks - Rat, male and female

NOAEL: 1000 mg/kg

Method: OECD Test Guideline 422

Gavage

Highest dose tested

No systemic toxicity observed.

Unpublished reports

Inhalation (aerosol) 90-day - Rat, male and female

NOAEC: > 5 mg/l

Method: OECD Test Guideline 413

Highest dose tested

No significant adverse effects were reported

Unpublished reports

Experience with human exposure No data available

Aspiration toxicity No data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

2,2-dimethyl-1,3-dioxolan-4-ylmethanol LC50 - 96 h: 16,700 mg/l - Pimephales promelas (fathead minnow)

flow-through test

Analytical monitoring: yes

Method: according to a standardised method Not harmful to fish (LC/LL50 > 100 mg/L)

Published data

Acute toxicity to daphnia and other aquatic invertebrates

2,2-dimethyl-1,3-dioxolan-4-ylmethanol EC50 - 48 h : > 96 mg/l - Daphnia magna (Water flea)

static test

Analytical monitoring: yes

Method: OECD Test Guideline 202

Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Highest concentration tested

Unpublished reports

EC50 - 48 h: 4,600 mg/l - Daphnia magna (Water flea)

static test

Analytical monitoring: yes

Method: OECD Test Guideline 202

Not harmful to aquatic invertebrates. (EC/EL50 > 100 mg/L)

Unpublished reports

Toxicity to aquatic plants

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae)

static test

Analytical monitoring: yes End point: Growth rate

Method: OECD Test Guideline 201

Not harmful to algae (EC/EL50 > 100 mg/L)

Highest concentration tested

Unpublished reports

NOEC - 72 h : 92 mg/l - Pseudokirchneriella subcapitata (green algae)

static test

Analytical monitoring: yes End point: Growth rate

Method: OECD Test Guideline 201

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

Highest concentration tested

Unpublished reports

ErC50 - 72 h: 15,000 mg/l - Raphidocelis subcapitata (freshwater green alga)

static test

End point: Growth rate

Method: OECD Test Guideline 201

Not harmful to algae (EC/EL50 > 100 mg/L)

Unpublished reports

NOEC - 72 h : 940 mg/l - Raphidocelis subcapitata (freshwater green alga)

static test

End point: Growth rate

Method: OECD Test Guideline 201

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

Unpublished reports

Toxicity to microorganisms

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

- 3 h : - activated sludge

static test

End point: Respiration inhibition

EC50: > 1,000 mg/l

EC10: > 1,000 mg/l

Analytical monitoring: no

Method: OECD Test Guideline 209

Unpublished reports

Chronic toxicity to fish

No data available

Chronic toxicity to daphnia and other aquatic invertebrates

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

NOEC: 10 mg/l - 21 Days - Daphnia magna (Water flea)

semi-static test

Analytical monitoring: yes End point: Reproduction

Method: OECD Test Guideline 211

No adverse chronic effect observed up to and including the threshold of 1 mg/L.

Unpublished reports

Terrestrial Compartment

Toxicity to soil dwelling organisms

2,2-dimethyl-1,3-dioxolan-4-ylmethanol NOEC: 250 mg/kg - 56 Days - Eisenia fetida (earthworms)

End point: Reproduction

Method: OECD Test Guideline 222

Unpublished reports

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

EC10: 1,250 mg/kg - 28 Days - soil micro-organisms

End point: Nitrogen transformation Method: OECD Test Guideline 216

Unpublished reports

12.2 Persistence and degradability

Abiotic degradation

Stability in water

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

DT50: Hydrolysis pH: 4.0

Temperature of hydrolysis: 15 °C Hydrolysis time: 6.59 Days

Temperature of hydrolysis: 20 °C Hydrolysis time: 3.51 Days

Temperature of hydrolysis: 25 °C Hydrolysis time: 0.959 Days

Method: OECD Test Guideline 111

Unpublished reports

Physical- and photo-chemical

elimination

No data available

Biodegradation

Biodegradability

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Ready biodegradability study:

Method: OECD Test Guideline 301 F

86.2 % - 28 Days

The 10 day time window criterion is fulfilled.

The substance fulfills the criteria for ultimate aerobic biodegradability and ready

biodegradability

Theoretical oxygen demand Inoculum: activated sludge Unpublished internal reports

Inherent biodegradability study Method: OECD Test Guideline 302 B

25 % - 28 Days

The substance fulfills the criteria for inherent primary biodegradability

Dissolved organic carbon (DOC) Inoculum: activated sludge Unpublished internal reports

Degradability assessment

2,2-dimethyl-1,3-dioxolan-4-ylmethanol

The product is considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

2,2-dimethyl-1,3-dioxolan-4-

vlmethanol

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil

PRCO90063327

Version: 18.00 / GB (EN)





Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Adsorption potential (Koc)

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Adsorption/Soil

Log Koc: < 1.25

Method: OECD Test Guideline 121

Highly mobile in soils Unpublished reports

Known distribution to environmental

compartments

No data available

12.5 Results of PBT and vPvB assessment

2,2-dimethyl-1,3-dioxolan-4-ylmethanol This substance is not considered to be persistent, bioaccumulating and toxic

(PBT)

This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

12.6 Other adverse effects

Ecotoxicity assessment

Short-term (acute) aquatic hazard

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

Long-term (chronic) aquatic hazard

2,2-dimethyl-1,3-dioxolan-4-ylmethanol No adverse chronic effect observed up to and including the threshold of 1 mg/L.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

Prohibition

- Do not discharge directly into the environment.
- Dispose of in accordance with local regulations.
- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

Advice on cleaning and disposal of packaging

Prohibition

- Do NOT dispose of untreated packaging with industrial waste.
- Do not dispose of with domestic refuse.
- Empty remaining contents.
- Clean using steam.
- Monitor the residual vapours.
- Dispose of rinse water in accordance with local and national regulations.
- Containers that cannot be cleaned must be treated as waste.
- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.
- Where possible recycling is preferred to disposal or incineration.
- The recycled material must be completely dry and free of pollutants.

SECTION 14: Transport information

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

ADN/ADNR

not regulated

<u>ADR</u>

not regulated

<u>RID</u>

not regulated

IMDG

not regulated

<u>IATA</u>

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Notification status

Inventory Information	Status
United States TSCA Inventory	All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA (""European" "Economic Area""), this product is compliant with the registration" provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Korea. Act on Registration and Evaluation of Chemicals	When purchased from a Solvay legal entity based in Korea, this product is

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.

15.2 Chemical safety assessment

- no data available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H319: Causes serious eye irritation.

Key or legend to abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

Further information

- Distribute new edition to clients

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.



Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Annex : 211

PRCO90063327 Version : 18.00 / GB (EN) www.solvay.com





Revision Date 23.01.2024

ES1: Consumer use, Use into insect repellent products

1.1. Title section

Structured Short Title : Consumer use

Environ	Environment		
CS1	End use of insect repellent products	ERC8a,	
Consum	er		
CS2	Use of biocidal products (insect repellent), Electric room diffuser, Indoor	PC8,,, OC8	
CS3	Use of biocidal products (insect repellent), Electric diffuser, Outdoor	PC8,,, OC9	

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of insect repellent products ()

Amount used, frequency and duration of use (or from service life)			
EU tonnage (T/year)	:	60	
Fraction of EU tonnage used in region:	:	10 %	
Annual amount per site	:	0.012 t	
Daily amount per site	:	<= 0.033 kg	
Emission Days (days/year):	:	365	
Maximum daily local emission to waste water	:	0.033 kg	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	No specific measures identified.	

1.2.2. Control of consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric room diffuser () / Indoor (OC8)

Conditions and measures related to personal protection, hygiene and health evaluation		
General measures (eye irritants)		
Avoid direct eye contact with product, also via contamination on hands.		
Avoid splashing.		
Other conditions affecting consumers exposure		
Indoor or outdoor use : Indoor use		

1.2.3. Control of consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric diffuser () / Outdoor (OC9)

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation		
General measures (eye irritants)		
Avoid direct eye contact with pro	duct, also vi	a contamination on hands.
Avoid splashing.		
Other conditions affecting consumers exposure		
Indoor or outdoor use	:	Outdoor use

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of insect repellent products ()

Compartment	Exposure level	RCR
Freshwater	0.000747 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00402 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.000056 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000301 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.00209 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00581 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.0006 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

1.3.2. Consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric room diffuser () / Indoor (OC8)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.057 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	0 mg/kg bw/day (AISE REACT)	< 0.01
combined routes	systemic	long-term		< 0.01

1.3.3. Consumer exposure: Biocidal products (e.g. Disinfectants, pest control) (PC8) / Use of biocidal products (insect repellent) () / Electric diffuser () / Outdoor (OC9)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.057 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	0 mg/kg bw/day (AISE REACT)	< 0.01
combined routes	systemic	long-term		< 0.01

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES2: Consumer use, Use in paint

2.1. Title section

Structured Short Title : Consumer use

Environ	Environment			
CS1	Consumer use	ERC8a,		
Consun	ner			
CS2	All application phases regarding water borne paint	PC9a,		
CS3	All application phases regarding coatings	PC9a,		

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Consumer use ()

Amount used, frequency and duration of use (or from service life)			
Daily amount per site	:	<= 0.088 kg	
Maximum daily local emission to waste water	:	0.088 kg	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	Particular considerations on the waste treatment operations	

2.2.2. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding water borne paint ()

Product (article) characteristics			
Covers percentage substance in t	he product up to 1 %.		
Amount used, frequency and duration of use (or from service life)			
Amount per Application	: <= 3750 g/event		
Exposure frequency	: 1 events/day		
Use frequency	: Infrequent		
Duration	: Application duration <= 120 min		
Duration	: Dermal exposure duration per event <= 120 min		
Duration	: Inhalation exposure duration per event <= 132 min		
Other conditions affecting consumers exposure			
Room size	: >= 20 m3		



Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Ventilation rate : >= 0.6

2.2.3. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding coatings ()

- ega: ag ceage (/	
Product (article) characteristic	es S
Covers concentrations up to 4 %	
Physical form of product	: Liquid
Amount used, frequency and o	duration of use (or from service life)
Amount per Application	: <= 1650 g/event
Exposure frequency	: 1 events/day
Use frequency	: Infrequent
Duration	: Application duration <= 60 min
Duration	: Inhalation exposure duration per event <= 60 min
Other conditions affecting cor	nsumers exposure
Room size	: >= 34 m3
Ventilation rate	: >= 1.5

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Consumer use ()

Compartment	Exposure level	RCR
Freshwater	0.00109 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00589 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000907 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000488 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.00556 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00594 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000603 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

2.3.2. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding water borne paint ()

Exposure route Health effect Exposure indicator Exposure level RCR	
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PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

dermal	systemic	long-term	0.0033 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
inhalative	systemic	long-term	0.0053 mg/m³ (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		< 0.01

2.3.3. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a) / All application phases regarding coatings ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
dermal	systemic	long-term	0.000154 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
inhalative	systemic	long-term	0.009 mg/m³ (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		< 0.01

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES3: Formulation or re-packing, Industrial formulation of homecare products

3.1. Title section

Structured Short Title : Formulation or re-packing

Environment			
CS1	Industrial formulation of homecare products	ERC2,	
Worker			
CS2	General process exposures, no sampling	PROC1,, CS57	
CS3	General process exposures, With sample collection	PROC2,, CS56	
CS4	General process exposures	PROC3,	
CS5	General exposures open batch process including aerosols	PROC4,	
CS6	Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture)	PROC3,	
CS7	Sample collection	PROC3,	
CS8	Laboratory activities	PROC15, CS36	
CS9	Bulk transfers, Drum/batch transfers	PROC8b, CS14, CS8	
CS10	Mixing operations (open systems)	PROC5, CS30	
CS11	Transfer from/pouring from containers, Manual	PROC8a, CS22, CS34	
CS12	Tabletting, compression, extrusion or pelletisation	PROC14	
CS13	Drum and small package filling	PROC9, CS6	
CS14	Clean down and Maintenance	PROC8a,	
CS15	Storage	PROC1,	
CS16	Storage	PROC2,	

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation of homecare products ()

Amount used, frequency and duration Annual amount per site		<pre>cuse (or from service life) <= 1269 t</pre>
Daily amount per site	:	<= 12.69 t
Maximum daily local emission to waste water	:	1.269 kg
Maximum daily local emission to air	:	317.2 kg
Conditions and measures related to sewage treatment plant		

PRCO90063327

Version : 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

3.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Use in closed process, no likelihood of exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed continuous process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed batch process with occasional controlled exposure

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Closed batch process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.7. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed batch process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.8. Control of worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 95 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.10. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Aerosol

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.12. Control of worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.13. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

Product (article) characteristics

Covers concentrations up to 3 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

3.2.15. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Avoid splashing.	
Use in closed process, no likelihood of	of exposure
Occupational Health and Safety Mana	agement System: Advanced.
Conditions and measures related t	personal protection, hygiene and health evaluation
General measures (eye irritants)	
For further specification, refer to section	on 8 of the SDS.
Other conditions affecting workers	exposure
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

3.2.16. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()

Product (article) characteristics	
Covers percentage substance in the pro	oduct up to 100 %.
Physical form of product	: Liquid
Amount used, frequency and duratio	on of use (or from service life)
Use frequency	: Duration of the activity <= 15 min/day
Technical and organisational condition	ons and measures
Avoid direct eye contact with product, a	lso via contamination on hands.
Avoid splashing.	
Closed continuous process with occasion	onal controlled exposure
Occupational Health and Safety Manag	ement System: Advanced.
Conditions and measures related to	personal protection, hygiene and health evaluation
General measures (eye irritants)	
For further specification, refer to section	8 of the SDS.
Other conditions affecting workers e	xposure
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation of homecare products ()

Compartment	Exposure level	RCR
Freshwater	0.00856 mg/L (EUSES v2.1)	0.043

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Freshwater sediment	0.046 mg/kg dry weight (EUSES v2.1)	0.039
Marine water	0.000837 mg/L (EUSES v2.1)	0.042
Marine sediment	0.0045 mg/kg dry weight (EUSES v2.1)	0.038
Sewage treatment plant	0.08 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.013 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.024 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.057 mg/kg bw/day (EUSES v2.1)	0.011
Man via environment - combined routes		0.013

3.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.011 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.046

3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	0.138 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.069

3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.372 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

3.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.33 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.69 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.075

3.3.7. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.138 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.041

3.3.8. Worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.068 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.016

3.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	_	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	2.742 mg/kg bw/day	0.274

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
combined routes	systemic	long-term		0.279

3.3.10. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.32

3.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.293

3.3.12. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.114

3.3.13. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	1.372 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.183

3.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	6.608 mg/m³ (ECETOC TRA worker v3)	0.11
dermal	systemic	long-term	0.548 mg/kg bw/day (ECETOC TRA worker v3)	0.055
combined routes	systemic	long-term		0.165

3.3.15. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00385 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

3.3.16. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.385 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.37 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.143

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES4: Widespread use by professional workers, Professional uses as polishes and wax blends

4.1. Title section

Structured Short Title : Widespread use by professional workers

Environ	Environment				
CS1	Polishes and wax blends	ERC8a, PC31			
Worker					
CS2	Floor care products; polish/impregnating agent	PROC10,			
CS3	Floor care products; polish/impregnating agent	PROC11,			
CS4	Maintenance products; furniture and leather care products	PROC10,			
CS5	Maintenance products; furniture and leather care products	PROC11,			
CS6	Maintenance products; leather care product/ Preparatory phase	PROC8a,			
CS7	Maintenance products; leather care product/ Use phase	PROC2,			
CS8	Maintenance products; drain unblocker	PROC8a,			
CS9	Maintenance products; stainless steel care	PROC10,			
CS10	Maintenance products; stainless steel care; spray and wipe	PROC11,			

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Polishes and wax blends (PC31)

Amount used, frequency and duration of use (or from service life)					
Fraction of EU tonnage used in region:	:	10 %			
Daily amount per site	:	<= 0.15 kg			
Maximum daily local emission to waste water	:	0.15 kg			
Conditions and measures related to se	Conditions and measures related to sewage treatment plant				
STP type	:	Biological Sewage Treatment Plant			
STP Water - minimum efficiency of 87.36 %					
Conditions and measures related to treatment of waste (including article waste)					
Waste treatment	:	No specific measures identified.			

4.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Floor care products; polish/impregnating agent ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

4.2.3. Control of worker exposure: Non-industrial spraying (PROC11) / Floor care products; polish/impregnating agent ()

Product (article) characteristics

Covers concentrations up to 3 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exposure				
Indoor or outdoor use	:	Indoor use		
Temperature	:	Assumes process temperature up to 40 °C		

4.2.4. Control of worker exposure: Roller application or brushing (PROC10) / Maintenance products; furniture and leather care products ()

Product (article) characteristics				
Covers percentage substance in the	e product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and dur	ration of use (or from service life)			
Use frequency	: Duration of the activity <= 4 hours/day			
Technical and organisational cor	nditions and measures			
Avoid direct eye contact with produ	ct, also via contamination on hands.			
Avoid splashing.				
Provide a basic standard of general	l ventilation (1 to 3 air changes per hour).			
without local exhaust ventilation				
Occupational Health and Safety Ma	ınagement System: Basic.			
Conditions and measures related	I to personal protection, hygiene and health evaluation			
General measures (eye irritants)				
Use suitable eye protection. For further specification, refer to sec	tion 8 of the SDS.			
Other conditions affecting workers exposure				
Indoor or outdoor use	: Indoor use			
Temperature	: Assumes process temperature up to 40 °C			

4.2.5. Control of worker exposure: Non-industrial spraying (PROC11) / Maintenance products; furniture and leather care products ()

Product (article) characteristics				
Covers concentrations up to 4 %				
Physical form of product	: Liquid			
Amount used, frequency and duration of use (or from service life)				
Amount used, frequency and du	ration of use (or from service life)			
Amount used, frequency and du Use frequency	ration of use (or from service life) : Duration of the activity <= 15 min/day			

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

4.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; leather care product/ Preparatory phase ()

Product (article) characteristics Covers percentage substance in the product up to 1 %. Physical form of product : Liquid Amount used, frequency and duration of use (or from service life) Duration of the activity <= 15 min/day Use frequency Technical and organisational conditions and measures Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). without local exhaust ventilation Occupational Health and Safety Management System: Basic. Conditions and measures related to personal protection, hygiene and health evaluation General measures (eye irritants) Use suitable eye protection For further specification, refer to section 8 of the SDS Other conditions affecting workers exposure Indoor or outdoor use Indoor use **Temperature** Assumes process temperature up to 40 °C

4.2.7. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Maintenance products; leather care product/ Use phase ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed continuous process with occasional controlled exposure

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

4.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; drain unblocker ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

Wear suitable respiratory protection.

Inhalation - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

4.2.9. Control of worker exposure: Roller application or brushing (PROC10) / Maintenance products; stainless steel care ()

Product (article) characteristics	
Covers percentage substance in t	he product up to 1 %.
Physical form of product	: Liquid
Amount used, frequency and do	uration of use (or from service life)
Use frequency	: Duration of the activity <= 4 hours/day
Technical and organisational co	onditions and measures
Avoid direct eye contact with prod	luct, also via contamination on hands.
Avoid splashing.	
Provide a basic standard of gener	ral ventilation (1 to 3 air changes per hour).
without local exhaust ventilation	
Occupational Health and Safety M	//anagement System: Basic.
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
General measures (eye irritants)	
Use suitable eye protection.	
For further specification, refer to se	ection 8 of the SDS.
Other conditions affecting work	ers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

4.2.10. Control of worker exposure: Non-industrial spraying (PROC11) / Maintenance products; stainless steel care; spray and wipe ()

Product (article) characteristics		
Covers concentrations up to 4 %		
Physical form of product	:	Liquid

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Amount used, frequency and	duration of use (or from service life)
Use frequency	: Duration of the activity <= 15 min/day
Technical and organisational	conditions and measures
Avoid direct eye contact with pr	oduct, also via contamination on hands.
Avoid splashing.	
Provide a basic standard of ger	eral ventilation (1 to 3 air changes per hour).
without local exhaust ventilation	
Occupational Health and Safety	Management System: Basic.
Conditions and measures rela	ated to personal protection, hygiene and health evaluation
General measures (eye irritants)	
For further specification, refer to	section 8 of the SDS.
Other conditions affecting wo	rkers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Polishes and wax blends (PC31)

Compartment	Exposure level	RCR
Freshwater	0.00148 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00798 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.00013 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000697 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.00945 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00609 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000607 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

4.3.2. Worker exposure: Roller application or brushing (PROC10) / Floor care products; polish/impregnating agent ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

dermal	systemic		2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.504

4.3.3. Worker exposure: Non-industrial spraying (PROC11) / Floor care products; polish/impregnating agent ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	11.01 mg/m³ (ECETOC TRA worker v3)	0.184
dermal	systemic	long-term	0.22 mg/kg bw/day (RISKOFDERM v2.1)	0.022
combined routes	systemic	long-term		0.206

4.3.4. Worker exposure: Roller application or brushing (PROC10) / Maintenance products; furniture and leather care products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	8.26 mg/m³ (ECETOC TRA worker v3)	0.138
dermal	systemic	long-term	2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.412

4.3.5. Worker exposure: Non-industrial spraying (PROC11) / Maintenance products; furniture and leather care products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	11.01 mg/m³ (ECETOC TRA worker v3)	0.184
dermal	systemic	long-term	0.631 mg/kg bw/day (RISKOFDERM v2.1)	0.063
combined routes	systemic	long-term		0.247

4.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; leather care product/ Preparatory phase ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.377 mg/m³ (ECETOC TRA worker v3)	0.023
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.16

4.3.7. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Maintenance products; leather care product/ Use phase ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.018

4.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance products; drain unblocker ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.138 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.03

4.3.9. Worker exposure: Roller application or brushing (PROC10) / Maintenance products; stainless steel care ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	8.26 mg/m³ (ECETOC TRA worker v3)	0.138
dermal	systemic	long-term	2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.412

4.3.10. Worker exposure: Non-industrial spraying (PROC11) / Maintenance products; stainless steel care; spray and wipe ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	11.01 mg/m³ (ECETOC TRA worker v3)	0.184
dermal	systemic	long-term	0.631 mg/kg bw/day (RISKOFDERM v2.1)	0.063
combined routes	systemic	long-term		0.247

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version : 18.00 / GB (EN)





Revision Date 23.01.2024

ES5: Widespread use by professional workers, Professional end-use of washing and cleaning products (IFRA GES 4)

5.1. Title section

Structured Short Title : Widespread use by professional workers

Environment					
CS1	End-use of washing and cleaning products	ERC8d, ERC8a,			
Worker					
CS2	Kitchen cleaners (Use phase)	PROC10,			

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products ()

Amount used, frequency and duration of use (or from service life)				
Fraction of EU tonnage used in region:	:	10 %		
Daily amount per site	:	<= 0.198 kg		
Maximum daily local emission to waste water	:	0.198 kg		
Conditions and measures related to so	ewa	ge treatment plant		
STP type	:	Biological Sewage Treatment Plant		
STP Water - minimum efficiency of 87.36 %				
Conditions and measures related to treatment of waste (including article waste)				
Waste treatment	:	No specific measures identified.		

5.2.2. Control of worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()

Product (article) characteristics			
Covers concentrations up to 3 %			
Physical form of product	:	Liquid	
Amount used, frequency and duratio	n of ı	use (or from service life)	
Scale of application for spreading of		2 m 2/h	
liquid to surface	•	> 3 m2/h	



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Tochnical	and	organisational	conditions	and	moscuroc
rechnicai	anu	organisational	conditions	anu	measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products ()

Compartment	Exposure level	RCR
Freshwater	0.00179 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00962 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.00016 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000862 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.013 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.0062 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00061 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

5.3.2. Worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.5 mg/m³ (ART v1.5)	0.058
dermal	systemic	long-term	1.097 mg/kg bw/day	0.11

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
combined routes	systemic	long-term		0.168

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES6: Consumer use, Consumers end-use of washing and cleaning products (IFRA GES 6)

6.1. Title section

Structured Short Title : Consumer use

Environi	Environment				
CS1	End-use of washing and cleaning products	ERC8d, ERC8a,			
Consum	er				
CS2	Laundry and dish washing products	PC35, PC8_1, PC35_1			
CS3	Surface cleaners (liquid)	PC35,			
CS4	Toilet cleaners (liquid)	PC35,			
CS5	Carpet cleaning (liquids)	PC35,			
CS6	Wipes	PC35,			
CS7	High pressure washers/cleaners	PC35, AISE-SP- C0021			
CS8	Automotive Care Products	PC35, PC6			
CS9	Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)	PC35, PC8_3, PC35_3			
CS10	Surface care, trigger sprays	PC35,			
CS11	Kitchen cleaner, Liquids	PC35,, PC24_1			
CS12	Kitchen cleaner, Sprays	PC35,, PC24_3			

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products ()

Amount used, frequency and duration of use (or from service life)			
Fraction of EU tonnage used in region:	:	10 %	
Daily amount per site	:	<= 0.118 kg	
Maximum daily local emission to waste water	:	0.118 kg	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	No specific measures identified.	

6.2.2. Control of consumer exposure: Washing and cleaning products (PC35) / Laundry and dish washing products (PC8_1, PC35_1)



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics	5		
Covers percentage substance in	the produc	t up to 1 %.	
Physical form of product	:	No spray	
Amount used, frequency and d	uration of	use (or from service life)	
Amount per Application	:	<= 50 g/event	
Exposure frequency	:	1 events/day	
Duration	:	Duration of exposure by events 1 h	
Use frequency	:	Frequent	
Other conditions affecting consumers exposure			
Indoor or outdoor use	:	Indoor use	

6.2.3. Control of consumer exposure: Washing and cleaning products (PC35) / Surface cleaners (liquid) ()

Product (article) characteristics	s		
Covers percentage substance in	the product up to 1 %.		
Amount used, frequency and d	luration of use (or from service life)		
Amount used per event	: <= 60 g		
Exposure frequency	: 1 events/day		
Duration	: Duration of exposure by events 0.33 h		
Use frequency	: Frequent		
Other conditions affecting consumers exposure			
Indoor or outdoor use	: Indoor use		

6.2.4. Control of consumer exposure: Washing and cleaning products (PC35) / Toilet cleaners (liquid) ()

Product (article) characteristics			
Covers percentage substance in the	ne product up to 1 %.		
Amount used, frequency and du	uration of use (or from service life)		
Amount per Application	: <= 55 g/event		
Exposure frequency	: 1 events/day		
Duration	: Inhalation exposure duration per event <= 7 min		
Duration	: Dermal exposure duration per event <= 2 min		
Use frequency	: Frequent		
Other conditions affecting consumers exposure			
Indoor or outdoor use	: Indoor use		

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Room size	:	>= 2.5 m3
Ventilation rate	:	>= 2

6.2.5. Control of consumer exposure: Washing and cleaning products (PC35) / Carpet cleaning (liquids) ()

Product (article) characteristics			
Covers percentage substance in the	product up to 1 %.		
Amount used, frequency and dura	ation of use (or from service life)		
Amount per Application	: <= 687.5 g/event		
Exposure frequency	: 1 events/day		
Product amount ingested	: <= 0.00184 g/event		
Duration	: Application duration <= 30 min		
Duration	: Inhalation exposure duration per event <= 240 min		
Duration	: Dermal exposure duration per event <= 60 min		
Use frequency	: Frequent		
Other conditions affecting consumers exposure			
Indoor or outdoor use	: Indoor use		
Room size	: >= 58 m3		
Ventilation rate	: >= 0.5		

6.2.6. Control of consumer exposure: Washing and cleaning products (PC35) / Wipes ()

Product (article) characteristics			
Covers percentage substance in	Covers percentage substance in the product up to 1 %.		
Amount used, frequency and duration of use (or from service life)			
Exposure frequency	: 1 events/day		
Use frequency	: Frequent		

6.2.7. Control of consumer exposure: Washing and cleaning products (PC35) / High pressure washers/cleaners (AISE-SP-C0021)

Product (article) characteristics	3	
Covers percentage substance in t	the product up to 1 %.	
Physical form of product	: Liquid No spray	
Amount used, frequency and do	uration of use (or from service life)	
Amount per Application	: <= 50 g/event	
Exposure frequency	: 1 events/day	

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Duration : Duration of exposure by events <= 5 h

Use frequency : Infrequent

Other conditions affecting consumers exposure

Indoor or outdoor use : Indoor use

6.2.8. Control of consumer exposure: Washing and cleaning products (PC35) / Automotive Care Products (PC6)

Product (article) characteristics				
Covers percentage substance in the pro-	oduct	up to 1 %.		
Physical form of product	:	Liquid		
Amount used, frequency and duratio	n of	use (or from service life)		
Amount per Application	:	<= 5.769 g/event		
Exposure frequency	:	1 events/day		
Product amount in contact to skin	:	<= 0.286 g/event		
Duration	:	Application duration <= 20 min		
Duration	:	Inhalation exposure duration per event <= 60 min		
Use frequency	:	Infrequent		
Other conditions affecting consumers exposure				
Indoor or outdoor use	:	Indoor use		
Room size	:	>= 15 m3		
Ventilation rate	:	>= 2.5		

6.2.9. Control of consumer exposure: Washing and cleaning products (PC35) / Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Product (article) characteristics				
Covers percentage substance in t	he product u	p to 1 %.		
Physical form of product	:	Sprays		
Amount used, frequency and de	uration of us	se (or from service life)		
Amount per Application	:	<= 35 g/event		
Exposure frequency	:	1 events/day		
Duration	:	Duration of exposure by events 4 h		
Use frequency	:	Frequent		
Other conditions affecting consumers exposure				
Indoor or outdoor use	:	Indoor use		

6.2.10. Control of consumer exposure: Washing and cleaning products (PC35) / Surface care, trigger sprays ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics				
Covers the percentage of the sub	bstance in the product up to 0,998 %			
Physical form of product	: Sprays			
Amount used, frequency and duration of use (or from service life)				
Amount per Application	: <= 35 g/event			
Exposure frequency	: 1 events/day			
Duration	: Duration of exposure by events 4 h			
Use frequency	: Frequent			
Other conditions affecting consumers exposure				
Indoor or outdoor use	: Indoor use			

6.2.11. Control of consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Liquids (PC24_1)

Product (article) characteristics				
Covers percentage substance in the	roduct up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and dur	on of use (or from service life)			
Amount per Application	: <= 60 g/event			
Exposure frequency	: 1 events/day			
Duration	: Duration of exposure by ever	its 0.33 h		
Use frequency	: Frequent			
Other conditions affecting consumers exposure				
Indoor or outdoor use	: Indoor use			

6.2.12. Control of consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Sprays (PC24_3)

Product (article) characteristics				
Covers concentrations up to 0.5 9	6			
Physical form of product	: Sprays			
Amount used, frequency and d	uration of use (or from service life)			
Amount per Application	: <= 35 g/event			
Exposure frequency	: 1 events/day			
Duration	: Duration of exposure by events 4 h			
Use frequency	: Frequent			
Other conditions affecting cons	sumers exposure			

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Indoor or outdoor use	: Indoor use	
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6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End-use of washing and cleaning products ()

Compartment	Exposure level	RCR
Freshwater	0.00129 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00691 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.00011 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000591 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.00747 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00601 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000605 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

6.3.2. Consumer exposure: Washing and cleaning products (PC35) / Laundry and dish washing products (PC8_1, PC35_1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.384 mg/m³ (AISE REACT)	0.026
dermal	systemic	long-term	0.763 mg/kg bw/day (AISE REACT)	0.153
combined routes	systemic	long-term		0.178

6.3.3. Consumer exposure: Washing and cleaning products (PC35) / Surface cleaners (liquid) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.028 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	1.43 mg/kg bw/day (AISE REACT)	0.286
combined routes	systemic	long-term		0.288

6.3.4. Consumer exposure: Washing and cleaning products (PC35) / Toilet cleaners (liquid) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00011 mg/m³ (ConsExpo web 1.1.0)	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

dermal	systemic	long-term	0.027 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		< 0.01

6.3.5. Consumer exposure: Washing and cleaning products (PC35) / Carpet cleaning (liquids) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.0029 mg/m³ (ConsExpo web 1.1.0)	< 0.01
dermal	systemic	long-term	0.295 mg/kg bw/day (ConsExpo web 1.1.0)	0.059
oral	systemic	long-term	0.033 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		0.066

6.3.6. Consumer exposure: Washing and cleaning products (PC35) / Wipes ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
dermal	systemic	long-term	1.43 mg/kg bw/day (AISE REACT)	0.286

6.3.7. Consumer exposure: Washing and cleaning products (PC35) / High pressure washers/cleaners (AISE-SP-C0021)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	6.25 mg/m³ (ECETOC TRA consumer v3)	0.417
dermal	systemic	long-term	1.429 mg/kg bw/day (ECETOC TRA consumer v3)	0.286
combined routes	systemic	long-term		0.702

6.3.8. Consumer exposure: Washing and cleaning products (PC35) / Automotive Care Products (PC6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.000024 mg/m³ (ConsExpo web 1.1.0)	< 0.01
dermal	systemic	long-term	0.00164 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		< 0.01

6.3.9. Consumer exposure: Washing and cleaning products (PC35) / Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.147 mg/m³ (ECETOC TRA	0.343

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			consumer v3)	
dermal	systemic	long-term	1.429 mg/kg bw/day (ECETOC TRA consumer v3)	0.286
combined routes	systemic	long-term		0.629

6.3.10. Consumer exposure: Washing and cleaning products (PC35) / Surface care, trigger sprays ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.137 mg/m³ (ECETOC TRA consumer v3)	0.342
dermal	systemic	long-term	1.426 mg/kg bw/day (ECETOC TRA consumer v3)	0.285
combined routes	systemic	long-term		0.628

6.3.11. Consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Liquids (PC24_1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.028 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	1.43 mg/kg bw/day (AISE REACT)	0.286
combined routes	systemic	long-term		0.288

6.3.12. Consumer exposure: Washing and cleaning products (PC35) / Kitchen cleaner () / Sprays (PC24_3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.574 mg/m³ (ECETOC TRA consumer v3)	0.172
dermal	systemic	long-term	0.715 mg/kg bw/day (ECETOC TRA consumer v3)	0.143
combined routes	systemic	long-term		0.314

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

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PRCO90063327

Version: 18.00 / GB (EN) www.solvay.com





Revision Date 23.01.2024

ES7: Consumer use, Consumer end-use of air care products (IFRA GES 7)

7.1. Title section

Structured Short Title : Consumer use

Environ	Environment				
CS1	End use of air care products	ERC8a,			
Consum	er				
CS2	Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use	PC3_1,			
CS3	Static room diffuser with rattan sticks	PC3,			
CS4	Candles	PC3_2,			
CS5	Electric room diffuser	PC3_2,			

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of air care products ()

Amount used, frequency and duration of use (or from service life)				
Fraction of EU tonnage used in region:	:	10 %		
Daily amount per site	:	<= 0.652 kg		
Maximum daily local emission to waste water	:	0.652 kg		
Conditions and measures related to treatment of waste (including article waste)				
Waste treatment	:	No specific measures identified.		

7.2.2. Control of consumer exposure: Air care, instant action (aerosol sprays) (PC3_1) / Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use ()

Product (article) characteristics					
Covers concentrations up to 0.25 %					
Physical form of product	: Aerosol Sprays				
Amount used, frequency and duration of use (or from service life)					
Amount used, frequency and d	uration of use (or from service life)				
Amount used, frequency and d Amount per Application	: <= 10 g/event				
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PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Use frequency : Frequent

Other conditions affecting consumers exposure

Indoor or outdoor use : Indoor use

7.2.3. Control of consumer exposure: Air care products (PC3) / Static room diffuser with rattan sticks ()

Product (article) characteristics		
Covers concentrations up to 89.8 %		
Physical form of product	:	Liquid
Amount used, frequency and duration	n of	use (or from service life)
Amount per Application	:	<= 367 g/event
Exposure frequency	:	1 events/day
Product amount in contact to skin	:	<= 0.6 g/event
Duration	:	Application duration <= 90.3 d
Duration	:	Inhalation exposure duration per event <= 90.3 d
Use frequency	:	Infrequent
Other conditions affecting consumer	s exp	oosure
Body parts exposed	:	Assumes that potential dermal contact is limited to fingertips.
Indoor or outdoor use	:	Indoor use
Room size	:	>= 20 m3
Ventilation rate	:	>= 0.6

7.2.4. Control of consumer exposure: Air care, continuous action (solid and liquid) (PC3_2) / Candles ()

Product (article) characteristics			
Covers concentrations up to 9.98 %			
Physical form of product	:	No spray	
Amount used, frequency and durat	ion of	use (or from service life)	
Amount per Application	:	<= 50 g/event	
Exposure frequency	:	1 events/day	
Duration	:	Exposure duration 8 h	
Use frequency	:	Frequent	
Other conditions affecting consumers exposure			
Indoor or outdoor use	:	Indoor use	

7.2.5. Control of consumer exposure: Air care, continuous action (solid and liquid) (PC3_2) / Electric room diffuser ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristic	S	
Covers concentrations up to 49.9) %	
Physical form of product	:	No spray
Amount used, frequency and o	luration of	use (or from service life)
Amount per Application	:	<= 50 g/event
Exposure frequency	:	1 events/day
Duration	:	Exposure duration 8 h
Use frequency	:	Frequent
Other conditions affecting consumers exposure		
Indoor or outdoor use	:	Indoor use

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of air care products ()

Compartment	Exposure level	RCR
Freshwater	0.00466 mg/L (EUSES v2.1)	0.023
Freshwater sediment	0.025 mg/kg dry weight (EUSES v2.1)	0.021
Marine water	0.000447 mg/L (EUSES v2.1)	0.022
Marine sediment	0.00241 mg/kg dry weight (EUSES v2.1)	0.02
Sewage treatment plant	0.041 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00728 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00064 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

7.3.2. Consumer exposure: Air care, instant action (aerosol sprays) (PC3_1) / Air fresheners aerosols (aqueous, non-aqueous, concentrated (mini-aerosol) Timed-release aerosols) for consumer use ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	o o	4.348 mg/m³ (ECETOC TRA consumer v3)	0.29

7.3.3. Consumer exposure: Air care products (PC3) / Static room diffuser with rattan sticks ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.4 mg/m³ (ConsExpo	0.093

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			web 1.1.0)	
dermal	systemic	long-term	0.296 mg/kg bw/day (ConsExpo web 1.1.0)	0.059
oral	systemic	long-term	0.014 mg/kg bw/day (ConsExpo web 1.1.0)	< 0.01
combined routes	systemic	long-term		0.155

7.3.4. Consumer exposure: Air care, continuous action (solid and liquid) (PC3_2) / Candles ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.011 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	0.059 mg/kg bw/day (ECETOC TRA consumer v3)	0.012
combined routes	systemic	long-term		0.013

7.3.5. Consumer exposure: Air care, continuous action (solid and liquid) (PC3_2) / Electric room diffuser ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.057 mg/m³ (AISE REACT)	< 0.01
dermal	systemic	long-term	0.297 mg/kg bw/day (ECETOC TRA consumer v3)	0.059
combined routes	systemic	long-term		0.063

7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES8: Formulation or re-packing, Industrial formulation of personal care products

8.1. Title section

Structured Short Title : Formulation or re-packing

Environm	Environment			
CS1	Industrial formulation of personal care products	ERC2,		
Worker				
CS2	General process exposures, no sampling	PROC1,, CS57		
CS3	General process exposures, With sample collection	PROC2,, CS56		
CS4	General process exposures	PROC3,		
CS5	General exposures open batch process including aerosols	PROC4,		
CS6	Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture)	PROC3,		
CS7	Sample collection	PROC3,		
CS8	Laboratory activities	PROC15, CS36		
CS9	Bulk transfers, Drum/batch transfers	PROC8b, CS14, CS8		
CS10	Mixing operations (open systems)	PROC5, CS30		
CS11	Transfer from/pouring from containers, Manual	PROC8a, CS22, CS34		
CS12	Tabletting, compression, extrusion or pelletisation	PROC14		
CS13	Drum and small package filling	PROC9, CS6		
CS14	Clean down and Maintenance	PROC8a,		
CS15	Storage	PROC1,		
CS16	Storage	PROC2,		

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation of personal care products ()

Amount used, frequency and duration of use (or from service life)		
Annual amount per site	:	<= 500 t
Daily amount per site	:	<= 5 t
Maximum daily local emission to waste water	:	0 kg
Maximum daily local emission to air	:	5 t
Conditions and measures related to sewage treatment plant		

PRCO90063327

Version : 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

8.2.2. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Use in closed process, no likelihood of exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed continuous process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed batch process with occasional controlled exposure

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Closed batch process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.7. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Closed batch process with occasional controlled exposure

Occupational Health and Safety Management System: Advanced.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.8. Control of worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 95 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.10. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Aerosol

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.12. Control of worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.13. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

Inhalation - minimum efficiency of >= 90 %

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

Product (article) characteristics

Covers concentrations up to 0.8 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

without local exhaust ventilation

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

8.2.15. Control of worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity <= 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Avoid splashing.	
Use in closed process, no likelihood of	of exposure
Occupational Health and Safety Mana	agement System: Advanced.
Conditions and measures related t	personal protection, hygiene and health evaluation
General measures (eye irritants)	
For further specification, refer to section	on 8 of the SDS.
Other conditions affecting workers	exposure
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

8.2.16. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()

Product (article) characteristics	
Covers percentage substance in t	he product up to 100 %.
Physical form of product	: Liquid
Amount used, frequency and de	uration of use (or from service life)
Use frequency	: Duration of the activity <= 15 min/day
Technical and organisational co	onditions and measures
Avoid direct eye contact with prod	luct, also via contamination on hands.
Avoid splashing.	
Closed continuous process with o	ccasional controlled exposure
Occupational Health and Safety M	fanagement System: Advanced.
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
General measures (eye irritants)	
For further specification, refer to se	ection 8 of the SDS.
Other conditions affecting work	ers exposure
Indoor or outdoor use	: Outdoor use
Temperature	: Assumes process temperature up to 40 °C

8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation of personal care products ()

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.07 mg/kg dry weight (EUSES v2.1)	0.028
Man via environment - Inhalation	0.381 mg/m³ (EUSES v2.1)	0.025
Man via environment - Oral	0.889 mg/kg bw/day (EUSES v2.1)	0.178
Man via environment - combined routes		0.203

8.3.2. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / General process exposures () / no sampling (CS57)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.011 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

8.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / General process exposures () / with sample collection (CS56)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.046

8.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / General process exposures ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	0.138 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.069

8.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / General exposures open batch process including aerosols ()

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.372 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

8.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Batch processes at elevated temperatures (e.g. solvents resin manufacture, grease manufacture) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.33 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.69 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.075

8.3.7. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Sample collection ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.138 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.041

8.3.8. Worker exposure: Use as laboratory reagent (PROC15) / Laboratory activities (CS36)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.068 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.016

8.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Bulk transfers (CS14) / Drum/batch transfers (CS8)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	2.742 mg/kg bw/day	0.274

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
combined routes	systemic	long-term		0.279

8.3.10. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) (CS30)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.32

8.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer from/pouring from containers (CS22) / Manual (CS34)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.293

8.3.12. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.114

8.3.13. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Drum and small package filling (CS6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	1.372 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.183

8.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Clean down and Maintenance ()

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.082

8.3.15. Worker exposure: Use in closed process, no likelihood of exposure (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00385 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

8.3.16. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.385 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.37 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.143

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES9: Formulation or re-packing, Industrial formulation of personal care end-products

9.1. Title section

Structured Short Title : Formulation or re-packing

Environ	nent	
CS1	Industrial formulation end-products	ERC2,
Worker		
CS2	Uploading/unloading	PROC8b,
CS3	Sampling of received goods	PROC2,
CS4	Quality control of received goods	PROC15,
CS5	Storage	PROC1,
CS6	Closed system mixing including filling process equipment	PROC3,
CS7	Batch mixing with significant contact including filling process	PROC5,
CS8	Maintenance and cleaning	PROC8a,
CS9	Sampling of compounds	PROC2,
CS10	Quality control of compounds	PROC15,
CS11	Charging/discharging from/to vessels/large	PROC8b,
CS12	Transfer in a small containers	PROC9,
CS13	Production of preparations or articles by tabletting, compression, extrusion, pelletisation	PROC14

9.2. Conditions of use affecting exposure

9.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation end-products ()

Amount used, frequency and duration of use (or from service life)				
Fraction of EU tonnage used in region:	:	100 %		
Daily amount per site	:	<= 5 t		
Annual amount per site	:	<= 500 t		
Maximum daily local emission to waste water	:	0 kg		
Maximum daily local emission to air	:	5000 kg		
Conditions and measures related to se	ewa	ge treatment plant		
STP type	:	Municipal Sewage Treatment Plant		
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes		
STP effluent	:	2,000 m3/d		

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : No specific measures identified.

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

9.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Product (article) characteristics

Covers concentrations up to 0.4 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Use in closed process, no likelihood of exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Closed batch process with occasional controlled exposure

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

9.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Product (article) characteristics

Covers concentrations up to 0.4 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation				
General measures (eye irritants)				
For further specification, refer to	section 8 of	the SDS.		
Other conditions affecting workers exposure				
Indoor or outdoor use	:	Indoor use		
Temperature	:	Assumes process temperature up to 40 °C		

9.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Product (article) characteristics				
Covers percentage substance in the	ne product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and du	ration of use (or from service life)			
Use frequency	: Duration of the activity 1 h/day			
Technical and organisational co	nditions and measures			
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.				
Conditions and measures related to personal protection, hygiene and health evaluation				
General measures (eye irritants)				
Use suitable eye protection.				
For further specification, refer to section 8 of the SDS.				
Other conditions affecting work	ers exposure			
Indoor or outdoor use	: Indoor use			
Temperature	: Assumes process temperature up to 40 °C			

9.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Product (article) characteristic	s				
Covers percentage substance in	Covers percentage substance in the product up to 1 %.				
Physical form of product	: Liquid				
Amount used, frequency and duration of use (or from service life)					
Use frequency	: Duration of the activity 1 h/day				

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.2.13. Control of worker exposure: Production of preparations or articles by tabletting, compression, extrusion, pelletisation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

9.3. Exposure estimation and reference to its source

9.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation end-products ()

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.07 mg/kg dry weight (EUSES v2.1)	0.028
Man via environment - Inhalation	0.381 mg/m³ (EUSES v2.1)	0.025
Man via environment - Oral	0.889 mg/kg bw/day (EUSES v2.1)	0.178
Man via environment - combined routes		0.203

9.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

9.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.33 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.822 mg/kg bw/day (ECETOC TRA worker v3)	0.082
combined routes	systemic	long-term		0.088

9.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.204 mg/kg bw/day (ECETOC TRA worker v3)	0.02
combined routes	systemic	long-term		0.048

9.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

inhalative	systemic	long-term	0.00661 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.02 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

9.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.947 mg/m³ (ECETOC TRA worker v3)	0.099
dermal	systemic	long-term	0.414 mg/kg bw/day (ECETOC TRA worker v3)	0.041
combined routes	systemic	long-term		0.141

9.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.165

9.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.192

9.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.055 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA	0.014

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			worker v3)	
combined routes	systemic	long-term		0.015

9.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

9.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

9.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term	(ECETOC TRA worker v3)	0.078

9.3.13. Worker exposure: Production of preparations or articles by tabletting, compression, extrusion, pelletisation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.343 mg/kg bw/day (ECETOC TRA worker v3)	0.034
combined routes	systemic	long-term		0.08

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

9.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES10: Consumer use, End use of cosmetic products

10.1. Title section

Structured Short Title : Consumer use

Environm	Environment		
CS1	End use of cosmetic products	ERC8a,	
Consume			
CS2	End use of cosmetic products	PC39,	
CS3	End use of cosmetic products	PC28,	

10.2. Conditions of use affecting exposure

10.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products ()

Amount used, frequency and duration of use (or from service life)		
Fraction of EU tonnage used in region:	:	10 %
Daily amount for wide disperse uses	:	<= 0.275 kg
Maximum daily local emission to waste water	:	0.275 kg
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	No specific measures identified.

10.2.2. Control of consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()

Product (article) characteristics			
Covers percentage substance in	the produc	t up to 100 %.	
Amount used, frequency and duration of use (or from service life)			
Exposure frequency	:	1 events/day	
Use frequency	:	Frequent	
Other conditions affecting consumers exposure			
Indoor or outdoor use	:	Indoor use	

10.2.3. Control of consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()

Product (article) characteristics

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Covers percentage substance in the product up to 100 %.		
Amount used, frequency and duration of use (or from service life)		
Exposure frequency	:	1 events/day
Use frequency	:	Frequent
Other conditions affecting consumers exposure		
Indoor or outdoor use	:	Indoor use

10.3. Exposure estimation and reference to its source

10.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products ()

Compartment	Exposure level	RCR
Freshwater	0.0028 mg/L (EUSES v2.1)	0.011
Freshwater sediment	0.012 mg/kg dry weight (EUSES v2.1)	0.01
Marine water	0.000209 mg/L (EUSES v2.1)	0.01
Marine sediment	0.0012 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.017 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00638 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000615 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

10.3.2. Consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

10.3.3. Consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.



Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

10.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES11: Formulation or re-packing, Industrial formulation of cosmetics compounds

11.1. Title section

Structured Short Title : Formulation or re-packing

Environment		
CS1	Formulation	ERC2, SU 10
Worker		
CS2	Uploading/unloading	PROC8b,
CS3	Sampling of received goods	PROC2,
CS4	Quality control of received goods	PROC15,
CS5	Storage	PROC1,
CS6	Closed system mixing including filling process equipment	PROC3,
CS7	Batch mixing with significant contact including filling process	PROC5,
CS8	Maintenance and cleaning	PROC8a,
CS9	Sampling of compounds	PROC2,
CS10	Quality control of compounds	PROC15,
CS11	Charging/discharging from/to vessels/large	PROC8b,
CS12	Transfer in a small containers	PROC9,

11.2. Conditions of use affecting exposure

11.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Formulation (SU 10)

Amount used, frequency and duration of use (or from service life)		
Fraction of EU tonnage used in region:	:	100 %
Daily amount per site	:	<= 1.8 t
Annual amount per site	:	<= 360 t
Emission Days (days/year):	:	>= 200
Maximum daily local emission to waste water	:	3.6 kg
Maximum daily local emission to air	:	45 kg
Conditions and measures related to se	ewa	ge treatment plant
STP type	:	Municipal Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes
STP effluent	:	2,000 m3/d
STP		



Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : No specific measures identified.

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

11.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Product (article) characteristics

Covers concentrations up to 0.8 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Use in closed process, no likelihood of exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Closed batch process with occasional controlled exposure

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers concentrations up to 0.8 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Product (article) characteristics

Covers concentrations up to 0.8 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Temperature : Assumes process temperature up to 40 °C

11.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

11.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exp	os	ure
Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

11.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Product (article) characteristics					
Covers concentrations up to 0.8 %					
Physical form of product	: Liquid				
Amount used, frequency and dur	ation of use (or from service life)				
Use frequency	: Duration of the activity 1 h/day				
Technical and organisational con	ditions and measures				
Avoid direct eye contact with product Avoid splashing. Provide a basic standard of general Occupational Health and Safety Ma	ventilation (1 to 3 air changes per hour).				
Conditions and measures related	to personal protection, hygiene and health evaluation				
General measures (eye irritants)					
Use suitable eye protection. For further specification, refer to section 8 of the SDS.					
Other conditions affecting workers exposure					
Indoor or outdoor use	: Indoor use				
Temperature	: Assumes process temperature up to 40 °C				

11.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Product (article) characteristics					
Covers percentage substance in the	ne product up to 25 %.				
Physical form of product	: Liquid				
Amount used, frequency and du	Amount used, frequency and duration of use (or from service life)				
Use frequency	: Duration of the activity 1 h/day				
Technical and organisational conditions and measures					
Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.					



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation				
General measures (eye irritants)				
For further specification, refer to sec	ction 8 of t	the SDS.		
Other conditions affecting workers exposure				
Indoor or outdoor use	:	Indoor use		
Temperature		Assumes process temperature up to 40 °C		

11.3. Exposure estimation and reference to its source

11.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Formulation (SU 10)

Compartment	Exposure level	RCR
Freshwater	0.023 mg/L (EUSES v2.1)	0.116
Freshwater sediment	0.125 mg/kg dry weight (EUSES v2.1)	0.106
Marine water	0.00231 mg/L (EUSES v2.1)	0.115
Marine sediment	0.012 mg/kg dry weight (EUSES v2.1)	0.105
Sewage treatment plant	0.227 mg/L (EUSES v2.1)	0.023
Agricultural soil	0.015 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.00693 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.017 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

11.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

11.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.37 mg/kg bw/day	0.137

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
combined routes	systemic	long-term		0.146

11.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.34 mg/kg bw/day (ECETOC TRA worker v3)	0.034
combined routes	systemic	long-term		0.08

11.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.011 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

11.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	9.912 mg/m³ (ECETOC TRA worker v3)	0.165
dermal	systemic	long-term	0.69 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.234

11.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.165

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

11.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.192

11.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.33 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.822 mg/kg bw/day (ECETOC TRA worker v3)	0.082
combined routes	systemic	long-term		0.088

11.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.625 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.204 mg/kg bw/day (ECETOC TRA worker v3)	0.02
combined routes	systemic	long-term		0.048

11.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

11.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	3	3.304 mg/m³ (ECETOC TRA worker v3)	0.055

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

dermal	systemic	long-term	4.116 mg/kg bw/day (ECETOC TRA worker v3)	0.412
combined routes	systemic	long-term		0.467

11.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES12: Formulation or re-packing, Industrial, Formulation of fragranced end-products (IFRA GES 2)

12.1. Title section

Structured Short Title : Formulation or re-packing

Environi	Environment				
CS1	Industrial formulation end-products	ERC2,			
Worker					
CS2	Uploading/unloading	PROC8b,			
CS3	Sampling of received goods	PROC2,			
CS4	Quality control of received goods	PROC15,			
CS5	Storage	PROC1,			
CS6	Closed system mixing including filling process equipment	PROC3,			
CS7	Batch mixing with significant contact including filling process	PROC5,			
CS8	Maintenance and cleaning	PROC8a,			
CS9	Sampling of compounds	PROC2,			
CS10	Quality control of compounds	PROC15,			
CS11	Charging/discharging from/to vessels/large	PROC8b,			
CS12	Transfer in a small containers	PROC9,			
CS13	Production of preparations or articles by tabletting, compression, extrusion, pelletisation	PROC14			

12.2. Conditions of use affecting exposure

12.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Industrial formulation end-products ()

Amount used, frequency and duration of use (or from service life)				
Daily amount per site	:	<= 1.186 t		
Fraction of EU tonnage used in region:	:	100 %		
Annual amount per site	:	<= 1190 t		
Emission Days (days/year):	:	>= 250		
Maximum daily local emission to waste water	:	2.372 kg		
Maximum daily local emission to air	:	29.65 kg		
Conditions and measures related to sewage treatment plant				
STP type	:	Municipal Sewage Treatment Plant		
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes		

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : No specific measures identified.

Other conditions affecting environmental exposure

Receiving surface water flow : 18,000 m3/d

12.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Product (article) characteristics

Covers concentrations up to

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.4. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.5. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Use in closed process, no likelihood of exposure

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.6. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Closed batch process with occasional controlled exposure

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

12.2.7. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exposure			
Indoor or outdoor use	: Indoor use		
Temperature	: Assumes process temperature up to 40 °C		

12.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Product	(article)) characteristics
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Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.10. Control of worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to personal protection, hygiene and health evaluation				
General measures (eye irritants)				
For further specification, refer to se	ection 8 of t	the SDS.		
Other conditions affecting workers exposure				
Indoor or outdoor use : Indoor use				
Temperature : Assumes process temperature up to 40 °C				

12.2.11. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Product (article) characteristics	
Covers percentage substance in the	e product up to 1 %.
Physical form of product	: Liquid
Amount used, frequency and dur	ation of use (or from service life)
Use frequency	: Duration of the activity 1 h/day
Technical and organisational cor	ditions and measures
Avoid splashing.	ct, also via contamination on hands. ventilation (1 to 3 air changes per hour). nagement System: Advanced.
Conditions and measures related	to personal protection, hygiene and health evaluation
General measures (eye irritants)	
Use suitable eye protection. For further specification, refer to sec	tion 8 of the SDS
Other conditions affecting worke	
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

12.2.12. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Product (article) characterist	S				
Covers percentage substance i	Covers percentage substance in the product up to 1 %.				
Physical form of product	: Liquid				
Amount used, frequency and	uration of use (or from service life)				
Use frequency	: Duration of the activity 1 h/day				

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.2.13. Control of worker exposure: Production of preparations or articles by tabletting, compression, extrusion, pelletisation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

12.3. Exposure estimation and reference to its source

12.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Industrial formulation end-products ()

Compartment	Exposure level	RCR
Freshwater	0.016 mg/L (EUSES v2.1)	0.078

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Freshwater sediment	0.083 mg/kg dry weight (EUSES v2.1)	0.071
Marine water	0.00153 mg/L (EUSES v2.1)	0.077
Marine sediment	0.00825 mg/kg dry weight (EUSES v2.1)	0.07
Sewage treatment plant	0.15 mg/L (EUSES v2.1)	0.015
Agricultural soil	0.015 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.023 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.054 mg/kg bw/day (EUSES v2.1)	0.011
Man via environment - combined routes		0.012

12.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Uploading/unloading ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

12.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.055 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.015

12.3.4. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of received goods ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

12.3.5. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

inhalative	systemic	long-term	0.0011 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

12.3.6. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Closed system mixing including filling process equipment ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.991 mg/m³ (ECETOC TRA worker v3)	0.017
dermal	systemic	long-term	0.069 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.023

12.3.7. Worker exposure: Mixing or blending in batch processes (PROC5) / Batch mixing with significant contact including filling process ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.165

12.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Maintenance and cleaning ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.192

12.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Sampling of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.055 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA	0.014

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			worker v3)	
combined routes	systemic	long-term		0.015

12.3.10. Worker exposure: Use as laboratory reagent (PROC15) / Quality control of compounds ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

12.3.11. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Charging/discharging from/to vessels/large ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

12.3.12. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer in a small containers ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.078

12.3.13. Worker exposure: Production of preparations or articles by tabletting, compression, extrusion, pelletisation (PROC14)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.343 mg/kg bw/day (ECETOC TRA worker v3)	0.034
combined routes	systemic	long-term		0.08

PRCO90063327

Version: 18.00 / GB (EN)





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Revision Date 23.01.2024

12.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES13: Formulation or re-packing, Formulation of fragrance compounds (IFRA GES 1)

13.1. Title section

Structured Short Title : Formulation or re-packing

Environm	nent	
CS1	Formulation of fragrance compounds (IFRA GES 1)	ERC2,
Worker		
CS2	Material transfers from/to vessel/container at dedicated facility (IFRA F-1)	PROC8b, CS1
CS3	Storage (IFRA F-2)	PROC1, CS2
CS4	Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3)	PROC3, CS3
CS5	Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4)	PROC5, CS4
CS6	QC laboratory (IFRA F-5)	PROC15, CS5
CS7	Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6)	PROC9, CS6
CS8	Equipment cleaning and maintenance (IFRA F-7)	PROC8a, CS7

13.2. Conditions of use affecting exposure

13.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / Formulation of fragrance compounds (IFRA GES 1) ()

Amount used, frequency and duration of use (or from service life)				
Daily amount per site	:	<= 0.507 t		
Annual amount per site	:	<= 507 t		
Emission Days (days/year):	:	>= 250		
Maximum daily local emission to waste water	:	1.014 kg		
Maximum daily local emission to air	:	12.67 kg		
Conditions and measures related to se	ewa	ge treatment plant		
STP type	:	Municipal Sewage Treatment Plant		
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes		
STP effluent	:	2,000 m3/d		
STP Water - minimum efficiency of 87.36 %				
Conditions and measures related to tre	eatr	nent of waste (including article waste)		

PRCO90063327

Version: 18.00 / GB (EN)





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Revision Date 23.01.2024

Waste treatment : Particular considerations on the waste treatment operations

13.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Material transfers from/to vessel/container at dedicated facility (IFRA F-1) (CS1)

Product (article) characteristics	
Covers percentage substance in	the product up to 1 %.
Physical form of product	: Liquid
Amount used, frequency and d	uration of use (or from service life)
Use frequency	: Duration of the activity 1 h/day
Technical and organisational c	onditions and measures
Provide a basic standard of gene Occupational Health and Safety I	ral ventilation (1 to 3 air changes per hour). //anagement System: Advanced.
Conditions and measures relat	ed to personal protection, hygiene and health evaluation
Use suitable eye protection.	
For further specification, refer to s	ection 8 of the SDS.
Other conditions affecting wor	kers exposure
Indoor or outdoor use	: Indoor use

13.2.3. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage (IFRA F-2) (CS2)

Assumes process temperature up to 40 °C

Product (article) characteristics				
Covers percentage substance in the	product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and dura	ation of use (or from service life)			
Use frequency	: Duration of the activity 1 h/day			
Technical and organisational con	ditions and measures			
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.				
Conditions and measures related to personal protection, hygiene and health evaluation				
Use suitable eye protection.				
For further specification, refer to section 8 of the SDS.				
Other conditions affecting workers exposure				
Indoor or outdoor use	: Indoor use			

PRCO90063327

Temperature

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Temperature : Assumes process temperature up to 40 °C

13.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3) (CS3)

Product (article) characteristics				
Covers percentage substance in the	product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and dura	ation of use (or from service life)			
Use frequency	: Duration of the activity 4 h/day			
Technical and organisational con-	ditions and measures			
Provide a basic standard of general Occupational Health and Safety Mar	ventilation (1 to 3 air changes per hour). nagement System: Advanced.			
Conditions and measures related	to personal protection, hygiene and health evaluation			
Use suitable eye protection.				
For further specification, refer to section 8 of the SDS.				
Other conditions affecting workers exposure				
Indoor or outdoor use	: Indoor use			
Temperature	: Assumes process temperature up to 40 °C			

13.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4) (CS4)

Product (article) characteristic	S				
Covers percentage substance in	the product up to 1 %.				
Physical form of product	: Liquid				
Amount used, frequency and c	luration of use (or from service life)				
Use frequency	: Duration of the activity 4 h/day				
Technical and organisational of	Technical and organisational conditions and measures				
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.					
Conditions and measures related to personal protection, hygiene and health evaluation					
Use suitable eye protection.					
For further specification, refer to s	ection 8 of the SDS.				
Other conditions affecting workers exposure					

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

13.2.6. Control of worker exposure: Use as laboratory reagent (PROC15) / QC laboratory (IFRA F-5) (CS5)

Product (article) characteristi	:s
Covers percentage substance in	the product up to 1 %.
Physical form of product	: Liquid
Amount used, frequency and	duration of use (or from service life)
Use frequency	: Duration of the activity 15 min/day
Technical and organisational	conditions and measures
	eral ventilation (1 to 3 air changes per hour). Management System: Advanced.
Conditions and measures rela	ted to personal protection, hygiene and health evaluation
For further specification, refer to	section 8 of the SDS.
Other conditions affecting wo	rkers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

13.2.7. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6) (CS6)

Product (article) characteristic	;s			
Covers percentage substance in	the product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and	duration of use (or from service life)			
Use frequency	: Duration of the activity 1 h/day			
Technical and organisational conditions and measures				
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.				
Conditions and measures rela	ted to personal protection, hygiene and health evaluation			
Use suitable eye protection.				
For further specification, refer to section 8 of the SDS.				
Other conditions affecting workers exposure				



Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 40 °C

13.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Equipment cleaning and maintenance (IFRA F-7) (CS7)

Product (article) characteristics				
Covers percentage substance in the	product up to 1 %.			
Physical form of product	: Liquid			
Amount used, frequency and durat	tion of use (or from service life)			
Use frequency	: Duration of the activity 4 h/day			
Technical and organisational cond	ditions and measures			
Provide a basic standard of general v Occupational Health and Safety Mana	ventilation (1 to 3 air changes per hour). lagement System: Advanced.			
Conditions and measures related to personal protection, hygiene and health evaluation				
Use suitable eye protection.				
For further specification, refer to section 8 of the SDS.				
Other conditions affecting workers exposure				
Indoor or outdoor use	: Indoor use			
Temperature	: Assumes process temperature up to 40 °C			

13.3. Exposure estimation and reference to its source

13.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / Formulation of fragrance compounds (IFRA GES 1) ()

Compartment	Exposure level	RCR
Freshwater	0.00695 mg/L (EUSES v2.1)	0.035
Freshwater sediment	0.037 mg/kg dry weight (EUSES v2.1)	0.032
Marine water	0.000676 mg/L (EUSES v2.1)	0.034
Marine sediment	0.00363 mg/kg dry weight (EUSES v2.1)	0.031
Sewage treatment plant	0.064 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00975 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.00973 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.023 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

13.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Material transfers from/to vessel/container at dedicated facility (IFRA F-1) (CS1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.146

13.3.3. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Storage (IFRA F-2) (CS2)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.001 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

13.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Mixing operations (closed systems) in batch process including filling of equipment and sample collection (IFRA F-3) (CS3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.991 mg/m³ (ECETOC TRA worker v3)	0.017
dermal	systemic	long-term	0.069 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.023

13.3.5. Worker exposure: Mixing or blending in batch processes (PROC5) / Mixing operations (open systems) in batch process including filling of equipment and sample collection (IFRA F-4) (CS4)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.165

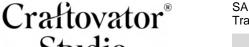
13.3.6. Worker exposure: Use as laboratory reagent (PROC15) / QC laboratory (IFRA F-5) (CS5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m ³	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

13.3.7. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or preparation into small containers (dedicated filling line, including weighing) (IFRA F-6) (CS6)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.078

13.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Equipment cleaning and maintenance (IFRA F-7) (CS7)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.192

13.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES14: Widespread use by professional workers, Professional uses, end-products

14.1. Title section

Structured Short Title Widespread use by professional workers

Environm	Environment		
CS1	Professional end-use of washing and cleaning products (IFRA GES 4)	ERC8d,	
Worker			
CS2	The use as fragrance solvent in various products (detergents, laundry products, dishwash products, kitchen cleaners, medical devices)	PROC8a,	
CS3	Use of detergent and conditioners	PROC8a,	
CS4	The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners)	PROC8a,	
CS5	The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners)	PROC8a,	
CS6	Prespotter/stain remover	PROC11,	
CS7	Dishwash products (Use phase)	PROC10,	
CS8	Dishwash and rinse products (Preparatory phase)	PROC8b,	
CS9	Dishwash and rinse products (Use phase)	PROC2,	
CS10	The use as fragrance solvent in various products	PROC10,	
CS11	General purpose cleaner, spray and wipe (Use phase)	PROC11,	
CS12	Kitchen cleaners (Use phase)	PROC10,	
CS13	The use as fragrance solvent in various products	PROC11,	
CS14	Descaling agent	PROC13,	
CS15	Oven, grill cleaner	PROC10,	
CS16	Floor cleaners (Preparatory phase)	PROC8a,	
CS17	Floor cleaners, spray and wipe (Use phase)	PROC11,	
CS18	The use as fragrance solvent in various products	PROC8a,	
CS19	Car wash and dewaxing products (Use phase)	PROC4,	
CS20	Spray and rinse process (Use phase)	PROC11,	
CS21	Boat cleaners (Use process)	PROC10,	
CS22	Surface cleaner: high and medium pressure (Preparatory phase)	PROC8a,	
CS23	Surface cleaner: high and medium pressure (Use phase)	PROC11,	
CS24	Medical devices (Preparatory process)	PROC8a,	
CS25	Medical devices (Use phase)	PROC4,	
CS26	Medical devices: dipping process (Preparatory process)	PROC8a,	
CS27	Medical devices: dipping process (Use phase)	PROC13,	
CS28	The use as fragrance solvent in various products	PROC11,	

PRCO90063327

Version: 18.00 / GB (EN) www.solvay.com





Revision Date 23.01.2024

14.2. Conditions of use affecting exposure

14.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Professional end-use of washing and cleaning products (IFRA GES 4) ()

Amount used, frequency and duration of use (or from service life)		
Fraction of EU tonnage used in region:	:	10 %
Daily amount for wide disperse uses	:	0.198 kg
Maximum daily local emission to waste water	:	0.198 kg
Conditions and measures related to s	ewa	ge treatment plant
STP Water - minimum efficiency of 87.36 %		
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	No specific measures identified.

14.2.2. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (detergents, laundry products, dishwash products, kitchen cleaners, medical devices) ()

Product (article) characteristics	
Covers percentage substance in the produc	t up to 1 %.
Physical form of product :	Liquid
Amount used, frequency and duration of	use (or from service life)
Use frequency :	Duration of the activity 15 min/day
Technical and organisational conditions	and measures
Avoid direct eye contact with product, also valvoid splashing. Provide a basic standard of general ventilation occupational Health and Safety Manageme	ion (1 to 3 air changes per hour).
Conditions and measures related to pers	onal protection, hygiene and health evaluation
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN374. Dermal - minimum efficiency of >= 80 %	
For further specification, refer to section 8 of	the SDS.
Other conditions affecting workers expo	
Indoor or outdoor use :	Indoor use
Temperature :	Assumes process temperature up to 40 °C

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

14.2.3. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Use of detergent and conditioners ()

Product (article) characteristics Covers percentage substance in the product up to 1 %. Physical form of product Liquid Amount used, frequency and duration of use (or from service life) Duration Covers daily exposures up to 8 hours Technical and organisational conditions and measures Avoid direct eye contact with product, also via contamination on hands. Avoid splashing. Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic. Conditions and measures related to personal protection, hygiene and health evaluation General measures (eye irritants) Jse suitable eye protection. For further specification, refer to section 8 of the SDS. Other conditions affecting workers exposure

14.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners) ()

Assumes process temperature up to 40 °C

Indoor use

Product (article) characteristics

Indoor or outdoor use

Temperature

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners) ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.6. Control of worker exposure: Non-industrial spraying (PROC11) / Prespotter/stain remover ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Very low application rate (< 0.03 l/minute)

Technical and organisational conditions and measures

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

14.2.7. Control of worker exposure: Roller application or brushing (PROC10) / Dishwash products (Use phase) ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Dishwash and rinse products (Preparatory phase) ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.9. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Dishwash and rinse products (Use phase) ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Closed continuous process with occasional controlled exposure

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

For further specification, refer to section 8 of the SDS

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exposure		
Indoor or outdoor use	: Indoor use	
Temperature	: Assumes process temperature up to 40 °C	

14.2.10. Control of worker exposure: Roller application or brushing (PROC10) / The use as fragrance solvent in various products ()

Product (article) characteristics		
Covers percentage substance in the	e product up to 1 %.	
Physical form of product	: Liquid	
Amount used, frequency and du	ration of use (or from service life)	
Duration	: Covers daily exposures up to 8 hours	
Technical and organisational co	nditions and measures	
Avoid splashing.	uct, also via contamination on hands. al ventilation (1 to 3 air changes per hour). anagement System: Basic.	
Conditions and measures related	d to personal protection, hygiene and health evaluation	
General measures (eye irritants)		
Use suitable eye protection. For further specification, refer to se	ction 8 of the SDS	
Other conditions affecting workers exposure		
Indoor or outdoor use	: Indoor use	
Temperature	: Assumes process temperature up to 40 °C	

14.2.11. Control of worker exposure: Non-industrial spraying (PROC11) / General purpose cleaner, spray and wipe (Use phase) ()

Product (article) characteristics	
Covers concentrations up to 15 %	
Physical form of product	: Liquid
Amount used, frequency and durati	on of use (or from service life)
Use frequency	: Duration of the activity 15 min/day
Low application rate (0.03 - 0.3 l/minut	e)
Technical and organisational condi	ions and measures
Avoid direct eye contact with product, Avoid splashing.	also via contamination on hands.



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

14.2.12. Control of worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Scale of application for spreading of

liquid to surface

> 3 m2/h

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

14.2.13. Control of worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.14. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13) / Descaling agent ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

For further specification, refer to section 8 of the SDS.		
Other conditions affecting wo	kers exposure	
Indoor or outdoor use	: Indoor use	
Temperature	: Assumes process temperature up to 40 °C	

14.2.15. Control of worker exposure: Roller application or brushing (PROC10) / Oven, grill cleaner ()

Product (article) characteristics	S
Covers concentrations up to 15 %	6
Physical form of product	: Liquid
Amount used, frequency and d	luration of use (or from service life)
Use frequency	: Duration of the activity 1 h/day
Technical and organisational c	onditions and measures
Avoid splashing.	duct, also via contamination on hands. eral ventilation (1 to 3 air changes per hour). Management System: Basic.
Conditions and measures relat	ed to personal protection, hygiene and health evaluation
General measures (eye irritants) Use suitable eye protection.	
Wear suitable gloves tested to EN Dermal - minimum efficiency of >=	
For further specification, refer to s	
Other conditions affecting wor	kers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 40 °C

14.2.16. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Floor cleaners (Preparatory phase) ()

Product (article) characteristics			
Covers concentrations up to 15 %			
Physical form of product	: Liquid		
Amount used, frequency and duration of use (or from service life)			
, modulity and a			
Use frequency	: Duration of the activity 1 h/day		
	: Duration of the activity 1 h/day		

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.17. Control of worker exposure: Non-industrial spraying (PROC11) / Floor cleaners, spray and wipe (Use phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Low application rate (0.03 - 0.3 l/minute)

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Segregation of the source: No segregation

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Room size : Any size workroom

Temperature : Assumes process temperature up to 25 °C

14.2.18. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

14.2.19. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Car wash and dewaxing products (Use phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

14.2.20. Control of worker exposure: Non-industrial spraying (PROC11) / Spray and rinse process (Use phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Moderate application rate (0.3 - 3 l/minute)

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Occupational Health and Safety Management System: Basic.

No containment

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

14.2.21. Control of worker exposure: Roller application or brushing (PROC10) / Boat cleaners (Use process) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Scale of application for spreading of

: > 3 m2/h

liquid to surface

Duration

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 25 °C

Distance from the worker to the emission source < 1 m

14.2.22. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Surface cleaner: high and medium pressure (Preparatory phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 0.25 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

14.2.23. Control of worker exposure: Non-industrial spraying (PROC11) / Surface cleaner: high and medium pressure (Use phase) ()

Product (article) characteristics

Covers concentrations up to 15 %

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Duration : Covers daily exposures up to 8 hours

Moderate application rate (0.3 - 3 l/minute)

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

Wear suitable respiratory protection.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Outdoor use

Temperature : Assumes process temperature up to 40 °C

14.2.24. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices (Preparatory process) ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Local exhaust ventilation

Dermal - minimum efficiency of 80 %

Inhalation - minimum efficiency of 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting workers exposure			
Indoor or outdoor use	:	Indoor use	
Temperature	:	Assumes process temperature up to 40 °C	

14.2.25. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Medical devices (Use phase) ()

Product (article)	characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Local exhaust ventilation

Dermal - minimum efficiency of 80 % Inhalation - minimum efficiency of 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.26. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices: dipping process (Preparatory process) ()

Product (article) characteristics			
Covers percentage substance in the produc	ct up to 1 %.		
Physical form of product :	Liquid		
Amount used, frequency and duration of use (or from service life)			
Use frequency :	Duration of the activity 15 min/day		

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Local exhaust ventilation

Dermal - minimum efficiency of 80 %

Inhalation - minimum efficiency of 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.2.27. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13) / Medical devices: dipping process (Use phase) ()

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Local exhaust ventilation

Dermal - minimum efficiency of 80 %

Inhalation - minimum efficiency of 80 %

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Temperature : Assumes process temperature up to 40 °C

14.2.28. Control of worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 15 min/day

Technical and organisational conditions and measures

Avoid direct eye contact with product, also via contamination on hands.

Avoid splashing.

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 40 °C

14.3. Exposure estimation and reference to its source

14.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Professional end-use of washing and cleaning products (IFRA GES 4) ()

Compartment	Exposure level	RCR
Freshwater	0.00179 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00962 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.00016 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000862 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.013 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.0062 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00061 mg/kg bw/day (EUSES v2.1)	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Man via environment - combined	< 0.01
routes	

14.3.2. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (detergents, laundry products, dishwash products, kitchen cleaners, medical devices) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.377 mg/m³ (ECETOC TRA worker v3)	0.023
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.05

14.3.3. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Use of detergent and conditioners ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.367

14.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (general purpose cleaners, laundry products, floor and carpet cleaners) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.073

14.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products (laundry products, dishwash products, kitchen and drain cleaners) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.377 mg/m³ (ECETOC TRA worker v3)	0.023
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.16

14.3.6. Worker exposure: Non-industrial spraying (PROC11) / Prespotter/stain remover ()

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4.3 mg/m³ (ART v1.5)	0.072
dermal	systemic	long-term	6.428 mg/kg bw/day (ECETOC TRA worker v3)	0.643
combined routes	systemic	long-term		0.715

14.3.7. Worker exposure: Roller application or brushing (PROC10) / Dishwash products (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	0.549 mg/kg bw/day (ECETOC TRA worker v3)	0.055
combined routes	systemic	long-term		0.284

14.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Dishwash and rinse products (Preparatory phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.037

14.3.9. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Dishwash and rinse products (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.137 mg/kg bw/day (ECETOC TRA worker v3)	0.014
combined routes	systemic	long-term		0.018

14.3.10. Worker exposure: Roller application or brushing (PROC10) / The use as fragrance solvent in various products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.504

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

14.3.11. Worker exposure: Non-industrial spraying (PROC11) / General purpose cleaner, spray and wipe (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.2 mg/m³ (ART v1.5)	0.053
dermal	systemic	long-term	6.428 mg/kg bw/day (ECETOC TRA worker v3)	0.643
combined routes	systemic	long-term		0.696

14.3.12. Worker exposure: Roller application or brushing (PROC10) / Kitchen cleaners (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	17 mg/m³ (ART v1.5)	0.283
dermal	systemic	long-term	3.292 mg/kg bw/day (ECETOC TRA worker v3)	0.329
combined routes	systemic	long-term		0.612

14.3.13. Worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	2.143 mg/kg bw/day (ECETOC TRA worker v3)	0.214
combined routes	systemic	long-term		0.306

14.3.14. Worker exposure: Treatment of articles by dipping and pouring (PROC13) / Descaling agent ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	6.608 mg/m³ (ECETOC TRA worker v3)	0.11
dermal	systemic	long-term	1.645 mg/kg bw/day (ECETOC TRA worker v3)	0.165
combined routes	systemic	long-term		0.275

14.3.15. Worker exposure: Roller application or brushing (PROC10) / Oven, grill cleaner ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	16.52 mg/m³ (ECETOC TRA worker v3)	0.275
dermal	systemic	long-term	3.292 mg/kg bw/day (ECETOC TRA worker v3)	0.329
combined routes	systemic	long-term		0.604

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

14.3.16. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Floor cleaners (Preparatory phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	16.52 mg/m³ (ECETOC TRA worker v3)	0.275
dermal	systemic	long-term	1.645 mg/kg bw/day (ECETOC TRA worker v3)	0.165
combined routes	systemic	long-term		0.44

14.3.17. Worker exposure: Non-industrial spraying (PROC11) / Floor cleaners, spray and wipe (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.1 mg/m³ (ART v1.5)	0.018
dermal	systemic	long-term	6.428 mg/kg bw/day (ECETOC TRA worker v3)	0.643
combined routes	systemic	long-term		0.661

14.3.18. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / The use as fragrance solvent in various products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.927 mg/m³ (ECETOC TRA worker v3)	0.032
dermal	systemic	long-term	0.274 mg/kg bw/day (ECETOC TRA worker v3)	0.027
combined routes	systemic	long-term		0.06

14.3.19. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Car wash and dewaxing products (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	23.12 mg/m³ (ECETOC TRA worker v3)	0.385
dermal	systemic	long-term	0.823 mg/kg bw/day (ECETOC TRA worker v3)	0.082
combined routes	systemic	long-term		0.468

14.3.20. Worker exposure: Non-industrial spraying (PROC11) / Spray and rinse process (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4.9 mg/m³ (ART v1.5)	0.082
dermal	systemic	long-term	6.428 mg/kg bw/day (ECETOC TRA worker v3)	0.643
combined routes	systemic	long-term		0.725

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

14.3.21. Worker exposure: Roller application or brushing (PROC10) / Boat cleaners (Use process) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.9 mg/m³ (ART v1.5)	0.065
dermal	systemic	long-term	3.292 mg/kg bw/day (ECETOC TRA worker v3)	0.329
combined routes	systemic	long-term		0.394

14.3.22. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Surface cleaner: high and medium pressure (Preparatory phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.782 mg/m³ (ECETOC TRA worker v3)	0.096
dermal	systemic	long-term	1.645 mg/kg bw/day (ECETOC TRA worker v3)	0.165
combined routes	systemic	long-term		0.261

14.3.23. Worker exposure: Non-industrial spraying (PROC11) / Surface cleaner: high and medium pressure (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	23.12 mg/m³ (ECETOC TRA worker v3)	0.385
dermal	systemic	long-term	3.275 mg/kg bw/day (RISKOFDERM v2.1)	0.328
combined routes	systemic	long-term		0.713

14.3.24. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices (Preparatory process) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.055 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.015

14.3.25. Worker exposure: Chemical production where opportunity for exposure arises (PROC4) / Medical devices (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.661 mg/m³ (ECETOC TRA worker v3)	0.011
dermal	systemic	long-term	0.027 mg/kg bw/day (ECETOC TRA	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			worker v3)	
combined routes	systemic	long-term		0.014

14.3.26. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Medical devices: dipping process (Preparatory process) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.275 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.055 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.01

14.3.27. Worker exposure: Treatment of articles by dipping and pouring (PROC13) / Medical devices: dipping process (Use phase) ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.661 mg/m³ (ECETOC TRA worker v3)	0.011
dermal	systemic	long-term	0.055 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.016

14.3.28. Worker exposure: Non-industrial spraying (PROC11) / The use as fragrance solvent in various products ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	2.143 mg/kg bw/day (ECETOC TRA worker v3)	0.214
combined routes	systemic	long-term		0.306

14.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN) www.solvay.com





Revision Date 23.01.2024

ES15: Consumer use, End use of cosmetic products

15.1. Title section

Structured Short Title : Consumer use

Environment		
CS1	End use of cosmetic products	ERC8a,
Consum	er	
CS2	End use of cosmetic products	PC39,
CS3	End use of cosmetic products	PC28,

15.2. Conditions of use affecting exposure

15.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products ()

Amount used, frequency and duration of use (or from service life)		
Fraction of EU tonnage used in region:	:	10 %
Daily amount for wide disperse uses	:	<= 0.198 kg
Maximum daily local emission to waste water	:	0.198 kg
Conditions and measures related to treatment of waste (including article waste)		
Waste treatment	:	No specific measures identified.

15.2.2. Control of consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()

Product (article) characteristic	es	
Covers percentage substance in	the product up to 100 %.	
Physical form of product	: No spray	
	duration of use (or from service life)	
Exposure frequency	: 1 events/day	
Use frequency	: Frequent	
Other conditions affecting con	nsumers exposure	
Indoor or outdoor use	: Indoor use	

15.2.3. Control of consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics	3	
Covers percentage substance in the	he product	t up to 100 %.
Amount used, frequency and du	uration of	use (or from service life)
Exposure frequency	:	1 events/day
Use frequency	:	Frequent
Other conditions affecting consumers exposure		
Indoor or outdoor use	:	Indoor use

15.3. Exposure estimation and reference to its source

15.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / End use of cosmetic products ()

Compartment	Exposure level	RCR
Freshwater	0.00179 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00962 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.00016 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000862 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.013 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.0062 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00061 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

15.3.2. Consumer exposure: Cosmetics, personal care products (PC39) / End use of cosmetic products ()

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

15.3.3. Consumer exposure: Perfumes, fragrances (PC28) / End use of cosmetic products ()

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

15.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES16: Formulation or re-packing

16.1. Title section

Structured Short Title : Formulation or re-packing

Environ	nent	
CS1	Formulation of fragrance compounds	ERC2,
CS2	Formulation of fragrance compounds at small sites	ERC2, IFRA SPERC 2.1b.v1
Worker		
CS3	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	PROC3
CS4	Storage	PROC1
CS5	Mixing operations (closed systems)	PROC3
CS6	Mixing operations (open systems)	PROC5
CS7	Laboratory use: QC laboratory use	PROC15
CS8	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS9	Equipment cleaning and maintenance	PROC8a, PROC28

16.2. Conditions of use affecting exposure

16.2.1. Control of environmental exposure: Formulation into mixture (ERC2) / IFRA SPERC 2.1a.v1 ()

Amount used, frequency and duration	of u	use (or from service life)
Daily amount per site	:	<= 0.507 t
Annual amount per site	:	<= 126.7 t
Emission Days (days/year):	:	>= 250
Maximum daily local emission to waste water	:	1.014 kg
Maximum daily local emission to air	:	12.67 kg
Conditions and measures related to s	ewa	ge treatment plant
STP type		Dialogical Courses Transferent Diagram
OTT type	•	Biological Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes
	:	Sewage sludge may be recovered for agricultural or horticultural



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

16.2.2. Control of environmental exposure: Formulation into mixture (ERC2) / IFRA – Formulation of fragrance compounds at small sites (IFRA SPERC 2.1b.v1)

Amount used, frequency and duration	of ı	use (or from service life)
Daily amount per site	:	<= 0.041 t
Annual amount per site	:	<= 10.14 t
Emission Days (days/year):	:	>= 250
Maximum daily local emission to waste water	:	0.205 kg
Maximum daily local emission to air	:	1.025 kg
Conditions and measures related to so	ewa	•
STP type	:	Biological Sewage Treatment Plant
STP sludge treatment	:	Sewage sludge may be recovered for agricultural or horticultural purposes
STP effluent	:	2,000 m3/d
STP Water - minimum efficiency of 87.36 %		
Conditions and measures related to tr	eatr	nent of waste (including article waste)
Waste treatment	:	Particular considerations on the waste treatment operations

16.2.3. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics	
Covers percentage substance in the pro	oduct up to 100 %.
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used, frequency and duratio	on of use (or from service life)
Use frequency	: Duration of the activity 1 h/day
Technical and organisational condition	ons and measures
Provide a basic standard of general ver Occupational Health and Safety Manag	
Conditions and measures related to p	personal protection, hygiene and health evaluation
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protection	

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Dermal - minimum efficiency of >= 80 For further specification, refer to sect		he SDS.
Other conditions affecting worker	rs expos	ure
Indoor or outdoor use	:	Indoor use
Temperature	:	Assumes process temperature up to 25 °C

16.2.4. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics	
Covers percentage substance in the	ne product up to 100 %.
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used, frequency and du	rration of use (or from service life)
Use frequency	: Duration of the activity 1 h/day
Technical and organisational co	anditions and measures
Provide a basic standard of general Occupational Health and Safety M	al ventilation (1 to 3 air changes per hour). lanagement System: Advanced.
Conditions and measures relate	ed to personal protection, hygiene and health evaluation
No specific measures identified.	
For further specification, refer to se	ection 8 of the SDS.
Other conditions affecting work	ers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

16.2.5. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characterist	cs
Covers percentage substance i	n the product up to 100 %.
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used, frequency and	duration of use (or from service life)
Use frequency	: Duration of the activity 4 h/day
Technical and organisational	conditions and measures
	neral ventilation (1 to 3 air changes per hour). Management System: Advanced.
Conditions and measures rel	ated to personal protection, hygiene and health evaluation

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Use suitable eye protection.
General measures (eye irritants)
For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

16.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

Use of appropriate dermal protection

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

16.2.7. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 0.25 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.
General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

16.2.8. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics Covers percentage substance in the product up to 25 %. Physical form of product Liquid, including paste/slurry/suspension Amount used, frequency and duration of use (or from service life) Use frequency Duration of the activity 1 h/day Technical and organisational conditions and measures Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced. Conditions and measures related to personal protection, hygiene and health evaluation Use suitable eye protection. General measures (eye irritants) For further specification, refer to section 8 of the SDS. Other conditions affecting workers exposure Indoor or outdoor use Indoor use Temperature Assumes process temperature up to 25 °C

16.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)

Product (article) characteristics	
Covers percentage substance in the produc	t up to 25 %.
Physical form of product :	Liquid, including paste/slurry/suspension
Amount used, frequency and duration of	use (or from service life)
Use frequency :	Duration of the activity 4 h/day



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

Dermal - minimum efficiency of >= 90 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

16.3. Exposure estimation and reference to its source

16.3.1. Environmental release and exposure: Formulation into mixture (ERC2) / IFRA SPERC 2.1a.v1 ()

Compartment	Exposure level	RCR
Freshwater	0.00695 mg/L (EUSES v2.1)	0.035
Freshwater sediment	0.037 mg/kg dry weight (EUSES v2.1)	0.032
Marine water	0.000676 mg/L (EUSES v2.1)	0.034
Marine sediment	0.00363 mg/kg dry weight (EUSES v2.1)	0.031
Sewage treatment plant	0.064 mg/L (EUSES v2.1)	0.051
Agricultural soil	0.00854 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.00249 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00629 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

16.3.2. Environmental release and exposure: Formulation into mixture (ERC2) / IFRA – Formulation of fragrance compounds at small sites (IFRA SPERC 2.1b.v1)

Compartment	Exposure level	RCR
Freshwater	0.00183 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00986 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.000165 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000885 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.013 mg/L (EUSES v2.1)	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Agricultural soil	0.00625 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.000271 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00106 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

16.3.3. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.366

16.3.4. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.001 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

16.3.5. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	9.912 mg/m³ (ECETOC TRA worker v3)	0.165
dermal	systemic	long-term	0.69 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.234

16.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	16.52 mg/m³ (ECETOC TRA worker v3)	0.275
dermal	systemic	long-term	2.742 mg/kg bw/day (ECETOC TRA worker v3)	0.274

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

combined routes systemic	long-term		0.55
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16.3.7. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.34 mg/kg bw/day (ECETOC TRA worker v3)	0.034
combined routes	systemic	long-term		0.08

16.3.8. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	4.116 mg/kg bw/day (ECETOC TRA worker v3)	0.412
combined routes	systemic	long-term		0.467

16.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	19.82 mg/m³ (ECETOC TRA worker v3)	0.33
dermal	systemic	long-term	0.823 mg/kg bw/day (ECETOC TRA worker v3)	0.082
combined routes	systemic	long-term		0.413

16.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES17: Formulation of fragranced end-products (GES 2), Formulation or re-packing

17.1. Title section

Structured Short Title : Formulation or re-packing

Environm	ent	
CS1	AISE Granular & Low Viscosity Liquids + CE/A.I.S.E. solid cosmetic & home care products - large scale	ERC3,
CS2	AISE Granular & Low Viscosity Liquids - CE/A.I.S.E. solid cosmetic & home care products medium scale	ERC3,
CS3	AISE Granular & Low Viscosity Liquids CE/A.I.S.E. solid cosmetic & home care products - small scale	ERC3,
CS4	AISE High Viscosity Liquids + CE Low Viscosity Liquids - large scale	ERC3,
CS5	AISE High Viscosity Liquids + CE Low Viscosity Liquids - medium scale	ERC3,
CS6	AISE High Viscosity Liquids + CE Low Viscosity Liquids - small scale	ERC3,
CS7	AISE & CE Fine Fragrances (cleaning with solvent) - all scales	ERC3,
CS8	Cosmetics Europe - Other formulations - all scales	ERC3
Worker		
CS9	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities	PROC8b
CS10	Laboratory use: QC laboratory use	PROC15
CS11	Storage	PROC1
CS12	Use in closed batch process (synthesis or formulation)	PROC3
CS13	Mixing operations (open systems)	PROC5
CS14	Equipment cleaning and maintenance	PROC8a, PROC28
CS15	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	PROC9
CS16	Production of preparations or articles by tabletting, compression, extrusion, pelletisation	PROC14

17.2. Conditions of use affecting exposure

17.2.1. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1a.v3 ()

Amount used, frequency and duration of use (or from service life)			
Daily amount per site	:	<= 0.76 t	
Annual amount per site	:	<= 228.1 t	
Emission Days (days/year):	:	>= 300	
Maximum daily local emission to waste	:	0.38 kg	

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

water

Maximum daily local emission to air $0.76 \, \text{kg}$

Conditions and measures related to sewage treatment plant

STP type **Biological Sewage Treatment Plant**

STP sludge treatment Sewage sludge may be recovered for agricultural or horticultural

purposes

2,000 m3/d STP effluent

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.2. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1b.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : <= 0.3 t

Annual amount per site <= 91.3 t

Emission Days (days/year): >= 300 0.3 kg

Maximum daily local emission to waste

water

Maximum daily local emission to air 0.3 kg

Conditions and measures related to sewage treatment plant

STP type **Biological Sewage Treatment Plant**

STP sludge treatment Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent 2,000 m3/d

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Indoor or outdoor use : Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.3. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1c.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : <= 0.47 t

Annual amount per site : <= 71 t

Emission Days (days/year): : >= 150

Maximum daily local emission to waste : 0.94 kg

water

Maximum daily local emission to air : 0.47 kg

Conditions and measures related to sewage treatment plant

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.4. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1j.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : <= 0.22 t

Annual amount per site : <= 66 t

Emission Days (days/year): : >= 300

Maximum daily local emission to waste : 0.22 kg

water

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Conditions and measures related to sewage treatment plant

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.5. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.1k.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : $\leq 0.12 \text{ t}$

Annual amount per site : <= 36 t

Emission Days (days/year): >= 300

Maximum daily local emission to waste

water

0.24 kg

Conditions and measures related to sewage treatment plant

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

Water contact during use

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.6. Control of environmental exposure: Formulation in materials (ERC3) / AISE 2.11.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : <= 0.24 t

Annual amount per site : <= 36 t

Emission Days (days/year): : >= 150

Maximum daily local emission to waste : 0.96 kg

water

Conditions and measures related to sewage treatment plant

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.7. Control of environmental exposure: Formulation in materials (ERC3) / Cosmetics Europe SPERC 2.2.a.v3 ()

Amount used, frequency and duration of use (or from service life)

Daily amount per site : <= 0.34 t

Annual amount per site : <= 102 t

Emission Days (days/year): >= 300

Conditions and measures related to sewage treatment plant

STP type : none

STP effluent : 2,000 m3/d

STP

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

No water contact during use.

17.2.8. Control of environmental exposure: Formulation in materials (ERC3)

Amount used, frequency and duration of use (or from service life)

Daily amount per site : $\leq 0.041 t$

Annual amount per site : <= 10.14 t

Emission Days (days/year): : >= 250

Maximum daily local emission to waste

water

Maximum daily local emission to air : 1.025 kg

Conditions and measures related to sewage treatment plant

STP type : Biological Sewage Treatment Plant

STP sludge treatment : Sewage sludge may be recovered for agricultural or horticultural

purposes

0.82 kg

STP effluent : 2,000 m3/d

STP

Water - minimum efficiency of 87.36 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : Particular considerations on the waste treatment operations

Other conditions affecting environmental exposure

Indoor or outdoor use : Indoor use

Water contact during use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

Trained staff, spill protection including waste reuse

17.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

General measures (eye irritants)

Use suitable eye protection.

Use of appropriate dermal protection

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 0.25 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.11. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

No specific measures identified.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.12. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.13. Control of worker exposure: Mixing or blending in batch processes (PROC5)

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Product (article) characteristics

Covers percentage substance in the product up to 25 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

Use of appropriate dermal protection

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.14. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 4 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

17.2.15. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

17.2.16. Control of worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Advanced.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Temperature : Assumes process temperature up to 25 °C

17.3. Exposure estimation and reference to its source

17.3.1. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1a.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.00294 mg/L (EUSES v2.1)	0.015
Freshwater sediment	0.016 mg/kg dry weight (EUSES v2.1)	0.013
Marine water	0.000275 mg/L (EUSES v2.1)	0.014
Marine sediment	0.00148 mg/kg dry weight (EUSES v2.1)	0.013
Sewage treatment plant	0.024 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00666 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.000251 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.00103 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.2. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1b.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.00243 mg/L (EUSES v2.1)	0.012
Freshwater sediment	0.013 mg/kg dry weight (EUSES v2.1)	0.011
Marine water	0.000225 mg/L (EUSES v2.1)	0.011
Marine sediment	0.00121 mg/kg dry weight (EUSES v2.1)	0.01
Sewage treatment plant	0.019 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00645 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.000147 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000778 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.3. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1c.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.00648 mg/L (EUSES v2.1)	0.032
Freshwater sediment	0.035 mg/kg dry weight (EUSES v2.1)	0.029

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Marine water	0.000225 mg/L (EUSES v2.1)	0.031
Marine sediment	0.000629 mg/kg dry weight (EUSES v2.1)	0.01
Sewage treatment plant	0.00338 mg/L (EUSES v2.1)	0.029
Agricultural soil	0.059 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.00797 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000132 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes	0.000776	< 0.01

17.3.4. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1j.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.00193 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.01 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.000174 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000936 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.014 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00625 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000611 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.5. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.1k.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.00205 mg/L (EUSES v2.1)	0.01
Freshwater sediment	0.011 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.000187 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.001 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.015 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.0063 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000612 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

17.3.6. Environmental release and exposure: Formulation in materials (ERC3) / AISE 2.11.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.0066 mg/L (EUSES v2.1)	0.033
Freshwater sediment	0.036 mg/kg dry weight (EUSES v2.1)	0.03
Marine water	0.000642 mg/L (EUSES v2.1)	0.032
Marine sediment	0.00345 mg/kg dry weight (EUSES v2.1)	0.029
Sewage treatment plant	0.061 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00801 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.00775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000651 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.7. Environmental release and exposure: Formulation in materials (ERC3) / Cosmetics Europe SPERC 2.2.a.v3 ()

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00573 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000598 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.8. Environmental release and exposure: Formulation in materials (ERC3)

Compartment	Exposure level	RCR
Freshwater	0.00572 mg/L (EUSES v2.1)	0.029
Freshwater sediment	0.031 mg/kg dry weight (EUSES v2.1)	0.026
Marine water	0.00553 mg/L (EUSES v2.1)	0.028
Marine sediment	0.00298 mg/kg dry weight (EUSES v2.1)	0.025

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Sewage treatment plant	0.052 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00771 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.000271 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.0011 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

17.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.645 mg/kg bw/day (ECETOC TRA worker v3)	0.165
combined routes	systemic	long-term		0.22

17.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.204 mg/kg bw/day (ECETOC TRA worker v3)	0.02
combined routes	systemic	long-term		0.048

17.3.11. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00661 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.02 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

17.3.12. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.947 mg/m³ (ECETOC TRA worker v3)	0.099
dermal	systemic	long-term	0.414 mg/kg bw/day (ECETOC TRA worker v3)	0.041

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

17.3.13. Worker exposure: Mixing or blending in batch processes (PROC5)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	9.912 mg/m³ (ECETOC TRA worker v3)	0.165
dermal	systemic	long-term	1.645 mg/kg bw/day (ECETOC TRA worker v3)	0.165
combined routes	systemic	long-term		0.33

17.3.14. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Manual maintenance (cleaning and repair) of machinery (PROC28)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	3.304 mg/m³ (ECETOC TRA worker v3)	0.055
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.192

17.3.15. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.078

17.3.16. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

<u> </u>		<u> </u>		
Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	0.034 mg/kg bw/day (ECETOC TRA worker v3)	0.034
combined routes	systemic	long-term		0.08

17.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

PRCO90063327

Version: 18.00 / GB (EN)





SAFETY DATA SHEET Transition document following UK exit from the EU

AUGEO® CLEAN MULTI

Revision Date 23.01.2024

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES18: Professional end-use of washing, cleaning and disinfecting products

18.1. Title section

Structured Short Title : Widespread use by professional workers

Environ	ment	
CS1	Professional end-use of washing, cleaning and disinfecting products, Use at industrial site	ERC8a
Worker		
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1
CS3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	PROC3
CS4	Chemical production where opportunity for exposure arises	PROC4
CS5	Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities	PROC8a
CS6	Transfer of substance or mixture (charging/discharging) at dedicated facilities	PROC8b
CS7	Roller application or brushing	PROC10
CS8	Non industrial spraying	PROC11
CS9	Treatment of articles by dipping and pouring	PROC13
CS10	Manual activities involving hand contact	PROC19

18.2. Conditions of use affecting exposure

18.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)				
Daily amount per site	: <= 0.0417 kg			
Annual amount per site	: <= 15.21 kg			
Emission Days (days/year):	: 365			
Conditions and measures related				
STP type	: Biological Sewage Treatment Plant			
STP Water - minimum efficiency of 87.36	5 %			
Conditions and measures related to treatment of waste (including article waste)				
Waste treatment	: No specific measures identified.			



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

18.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristic	s	
Covers percentage substance in	the product up to 1 %.	
Physical form of product	: Liquid, including paste/slurry/suspension	
Amount used, frequency and duration of use (or from service life)		
Use frequency	: Duration of the activity 8 h/day	
Technical and organisational c	onditions and measures	
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.		
Conditions and measures relat	ed to personal protection, hygiene and health evaluation	
No specific measures identified.		
For further specification, refer to section 8 of the SDS.		
Other conditions affecting wor	kers exposure	
Indoor or outdoor use	: Indoor use	
Temperature	: Assumes process temperature up to 25 °C	

18.2.3. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics		
Covers percentage substance in the product up to 1 %.		
Physical form of product	: Liquid, including paste/slurry/suspension	
Amount used, frequency and duration of use (or from service life)		
Use frequency	: Duration of the activity 8 h/day	
Technical and organisational conditions and measures		
Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.		
Conditions and measures related to personal protection, hygiene and health evaluation		
Use suitable eye protection. General measures (eye irritants)		
For further specification, refer to section 8 of the SDS.		
Other conditions affecting workers exposure		
Indoor or outdoor use	: Indoor use	
Temperature	: Assumes process temperature up to 25 °C	

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

18.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

18.2.5. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Temperature : Assumes process temperature up to 25 °C

18.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

18.2.7. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

18.2.8. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

Use of appropriate dermal protection

Dermal - minimum efficiency of >= 80 %

Wear suitable respiratory protection.

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For further specification, refer to section 8 of the SDS

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

18.2.9. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

General measures (eye irritants) For further specification, refer to section 8 of the SDS.					
Other conditions affecting workers exposure					
Indoor or outdoor use : Indoor use					
Temperature	:	Assumes process temperature up to 25 °C			

18.2.10. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristic	es es
Covers percentage substance in	the product up to 1 %.
Physical form of product	: Liquid, including paste/slurry/suspension
Amount used, frequency and o	duration of use (or from service life)
Use frequency	: Duration of the activity 8 h/day
Technical and organisational of	conditions and measures
Provide a basic standard of gene Occupational Health and Safety	eral ventilation (1 to 3 air changes per hour). Management System: Basic.
Conditions and measures rela	ted to personal protection, hygiene and health evaluation
Use suitable eye protection. General measures (eye irritants)	
Use of appropriate dermal protect Dermal - minimum efficiency of >	
For further specification, refer to	section 8 of the SDS.
Other conditions affecting wor	rkers exposure
Indoor or outdoor use	: Indoor use
Temperature	: Assumes process temperature up to 25 °C

18.3. Exposure estimation and reference to its source

18.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00573 mg/kg dry weight (EUSES	< 0.01

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

	v2.1)	
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000598 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

18.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

18.3.3. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.652 mg/m³ (ECETOC TRA worker v3)	0.028
dermal	systemic	long-term	0.069 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		0.034

18.3.4. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.16

18.3.5. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.183

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

18.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.155

18.3.7. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.504

18.3.8. Worker exposure: Non-industrial spraying (PROC11)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	2.143 mg/kg bw/day (ECETOC TRA worker v3)	0.214
combined routes	systemic	long-term		0.306

18.3.9. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.155

18.3.10. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	2.829 mg/kg bw/day (ECETOC TRA	0.283

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

			worker v3)	
combined routes	systemic	long-term		0.512

18.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES19: Professional uses as polishes and wax blends

19.1. Title section

Structured Short Title : Widespread use by professional workers

Environ	Environment					
CS1	Professional end-use of polishes and wax blends	ERC8a				
Worker						
CS2	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	PROC1				
CS3	Chemical production where opportunity for exposure arises	PROC4				
CS4		PROC8a				
CS5	Roller application or brushing	PROC10				
CS6	Treatment of articles by dipping and pouring	PROC13				
CS7	Manual activities involving hand contact	PROC19				

19.2. Conditions of use affecting exposure

19.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)					
Daily amount per site	: 0.0417 kg				
Annual amount per site	: <= 15.21 kg				
Emission Days (days/year):	: 365				
Conditions and measures related to sewage treatment plant STP type : Biological Sewage Treatment Plant					
STP Water - minimum efficiency of 87.3	6 %				
Conditions and measures related to treatment of waste (including article waste)					
Waste treatment	: No specific measures identified.				

19.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics
Covers percentage substance in the product up to 1 %.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

No specific measures identified.

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

19.2.3. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

19.2.4. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

PRCO90063327

Version: 18.00 / GB (EN)



Revision Date 23.01.2024

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

19.2.5. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

19.2.6. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 1 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

19.2.7. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristics

Covers percentage substance in the product up to 1 %.

Physical form of product : Liquid, including paste/slurry/suspension

Amount used, frequency and duration of use (or from service life)

Use frequency : Duration of the activity 8 h/day

Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Occupational Health and Safety Management System: Basic.

Conditions and measures related to personal protection, hygiene and health evaluation

Use suitable eye protection.

General measures (eye irritants)

Use of appropriate dermal protection

Dermal - minimum efficiency of >= 80 %

For further specification, refer to section 8 of the SDS.

Other conditions affecting workers exposure

Indoor or outdoor use : Indoor use

Temperature : Assumes process temperature up to 25 °C

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

19.3. Exposure estimation and reference to its source

19.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00573 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000598 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

19.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.00551 mg/m³ (ECETOC TRA worker v3)	< 0.01
dermal	systemic	long-term	0.0034 mg/kg bw/day (ECETOC TRA worker v3)	< 0.01
combined routes	systemic	long-term		< 0.01

19.3.3. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

	<u> </u>			<u> </u>
Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	5.507 mg/m³ (ECETOC TRA worker v3)	0.092
dermal	systemic	long-term	0.686 mg/kg bw/day (ECETOC TRA worker v3)	0.069
combined routes	systemic	long-term		0.16

19.3.4. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic		2.753 mg/m³ (ECETOC TRA worker v3)	0.046
dermal	systemic	long-term	1.371 mg/kg bw/day	0.137

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			(ECETOC TRA worker v3)	
combined routes	systemic	long-term		0.183

19.3.5. Worker exposure: Roller application or brushing (PROC10)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	2.743 mg/kg bw/day (ECETOC TRA worker v3)	0.274
combined routes	systemic	long-term		0.504

19.3.6. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.101 mg/m³ (ECETOC TRA worker v3)	0.018
dermal	systemic	long-term	1.371 mg/kg bw/day (ECETOC TRA worker v3)	0.137
combined routes	systemic	long-term		0.155

19.3.7. Worker exposure: Manual activities involving hand contact (PROC19)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	13.76 mg/m³ (ECETOC TRA worker v3)	0.229
dermal	systemic	long-term	2.829 mg/kg bw/day (ECETOC TRA worker v3)	0.283
combined routes	systemic	long-term		0.512

19.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

PRCO90063327

Version: 18.00 / GB (EN)





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Revision Date 23.01.2024

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN) www.solvay.com





Revision Date 23.01.2024

ES20: Consumers end-use of washing and cleaning products

20.1. Title section

Structured Short Title : Consumer use

Environ	Environment				
CS1	Consumers end-use of washing and cleaning products, Covers indoor and outdoor use.	ERC8d, ERC8a			
Consum	er				
CS2	Laundry products	PC35,			
CS3	Fabric conditioners	PC35,			
CS4	Surface cleaners, no spraying	PC35			
CS5	Toilet cleaners, no spraying	PC35			
CS6	Carpet cleaners, No spraying	PC35			
CS7	Wipes	PC35			
CS8	High pressure washers/cleaners	PC35			
CS9	Automotive care, no spraying	PC35			
CS10	Surface cleaners (liquid), Spraying	PC35			
CS11	oven cleaners, Spraying	PC35			
CS12	Carpet cleaners, Spraying	PC35			
CS13	Automotive care, Spraying	PC35			
CS14	Machine dishwashing products	PC35,			
CS15	Hand dishwashing liquids	PC35,			

20.2. Conditions of use affecting exposure

20.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)			
EU tonnage (T/year)	:	507	
Fraction of EU tonnage used in region:	:	4 %	
Annual amount per site	:	0.012 t	
Daily amount per site	:	<= 0.042 kg	
Emission Days (days/year):	:	365	
Maximum daily local emission to waste water	:	0.042 kg	



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Conditions and measures related to treatment of waste (including article waste)

Waste treatment : No specific measures identified.

20.2.2. Control of consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_1_a_1 ()

Product (article) characteristics

Covers concentrations up to 0.05 %

Amount used, frequency and duration of use (or from service life)

Exposure frequency : 1 events/day

Use frequency : Frequent

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

20.2.3. Control of consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_2_a_1 ()

Product (article) characteristics

Covers concentrations up to 0.1 %

Amount used, frequency and duration of use (or from service life)

Exposure frequency : 1 events/day

Use frequency : Frequent 210 days/year

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

20.2.4. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics

Covers concentrations up to 0.1 %

Physical form of product : No spray

Amount used, frequency and duration of use (or from service life)

Exposure frequency : 1 events/day

Amount per Application : 60 g/event

Use frequency : Frequent 0.33 h/event

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

Indoor or outdoor use : Indoor use

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

20.2.5. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics			
Covers concentrations up to 0.3 %			
Physical form of product	:	No spray	
Amount used, frequency and duration	of u	use (or from service life)	
Exposure frequency	:	1 events/day	
Amount per Application	:	35 g/event	
Use frequency	:	Frequent 0.02 h/event	
Other conditions affecting consumers exposure			
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.	
Indoor or outdoor use	:	Indoor use	

20.2.6. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics			
Covers concentrations up to 0.1 %			
Physical form of product	:	No spray	
Amount used, frequency and du	ration of	use (or from service life)	
Exposure frequency	:	1 events/day	
Amount per Application	:	110 g/event	
Use frequency	:	Frequent 0.3 h/event	
Other conditions affecting consumers exposure			
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.	
Indoor or outdoor use	:	Indoor use	

20.2.7. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics				
Covers concentrations up to 0.1 %	6			
Physical form of product	: No spray			
Amount used, frequency and du	uration of use (or from service life)			
Amount used, frequency and du Exposure frequency	: 1 events/day			
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PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Other conditions affecting consumers exposure			
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.	
Indoor or outdoor use	:	Indoor use	

20.2.8. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics		
Covers concentrations up to 0.1 %		
Physical form of product	:	No spray
Amount used, frequency and duration	n of	use (or from service life)
Exposure frequency	:	1 events/day
Amount per Application	:	50 g/event
Use frequency	:	Infrequent 5 h/event
Other conditions affecting consumers	s exp	posure
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.
Indoor or outdoor use	:	Indoor use

20.2.9. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics				
Covers concentrations up to 0.25 %				
Physical form of product	:	No spray		
Amount used, frequency and durat	ion of u	use (or from service life)		
Exposure frequency	:	1 events/day		
Amount per Application	:	200 g/event		
Use frequency	:	Infrequent 5 h/event		
Other conditions affecting consumers exposure				
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.		
Indoor or outdoor use	:	Indoor use		

20.2.10. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristic	s			
Covers concentrations up to 0.1	%			
Physical form of product	:	Sprays		
Amount used, frequency and d	luration of ι	use (or from service life	∍)	

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Exposure frequency : 1 events/day

Amount per Application : 30 g/event

Use frequency : Frequent 0.33 h/event

Other conditions affecting consumers exposure

Body parts exposed : Assumes that potential dermal contact is limited to hands.

20.2.11. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics				
Covers concentrations up to 0.1 %				
Physical form of product	:	Sprays		
Amount used, frequency and duration	on of	use (or from service life)		
Exposure frequency	:	1 events/day		
Amount per Application	:	30 g/event		
Use frequency	:	Frequent 0.2 h/event		
Other conditions affecting consumers exposure				
Body parts exposed		Assumes that potential dermal contact is limited to hands.		
Indoor or outdoor use		Indoor		

20.2.12. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics			
Covers concentrations up to 0.1 %			
Physical form of product :	:	Sprays	
Amount used, frequency and duration of	f u	ise (or from service life)	
Exposure frequency :	:	1 events/day	
Amount per Application :	:	30 g/event	
Use frequency :	:	Frequent 0.2 h/event	
Other conditions affecting consumers exposure			
Body parts exposed :		Assumes that potential dermal contact is limited to hands.	
Indoor or outdoor use :		Indoor use	

20.2.13. Control of consumer exposure: Washing and cleaning products (PC35)

Product (article) characteristics
Covers concentrations up to 0.25 %

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Physical form of product	:	Sprays			
Amount used, frequency and duration of use (or from service life)					
Exposure frequency	:	1 events/day			
Amount per Application	:	200 g/event			
Use frequency	:	Frequent 5 h/event			
Other conditions affecting consumers exposure					
Body parts exposed	:	Assumes that potential dermal contact is limited to hands.			
Indoor or outdoor use	:	Indoor use			

20.2.14. Control of consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_4_a_1 ()

Product (article) characteristics						
Covers concentrations up to 0.05 %						
Amount used, frequency and duration of use (or from service life)						
Exposure frequency	:	1 events/day				
Use frequency	:	Frequent 261 days/year				
Other conditions affecting consumers exposure						
Body parts exposed	:	Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.				

20.2.15. Control of consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_5_a_1 ()

Product (article) characteristics					
Covers concentrations up to 0.05	5 %				
Amount used, frequency and o	Amount used, frequency and duration of use (or from service life)				
Exposure frequency	: 2 events/day				
Use frequency	: Frequent 365 days/year				
Other conditions affecting consumers exposure					
Body parts exposed	: Assumes that potential dermal contact is limited to hands.				

20.3. Exposure estimation and reference to its source

20.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d) / Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
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PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

Freshwater	0.000802 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.00431 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000615 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000331 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0.00263 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00583 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.0006 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

20.3.2. Consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_1_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0 mg/m³ (ECETOC TRA consumer v3)	< 0.01
dermal	systemic	long-term	0.071 mg/kg bw/day (ECETOC TRA consumer v3)	0.014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.014

20.3.3. Consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_2_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0 mg/m³ (ECETOC TRA consumer v3)	< 0.01
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.029

20.3.4. Consumer exposure: Washing and cleaning products (PC35)

20.01-1. Constant exposure. Washing and cleaning products (1 000)					
Exposure route	Health effect	Exposure indicator	Exposure level	RCR	
inhalative	systemic	long-term	2.504 mg/m³ (ECETOC TRA consumer v3)	0.167	
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029	
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA	< 0.01	

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			consumer v3)	
combined routes	systemic	long-term		0.196

20.3.5. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.155 mg/m³ (ECETOC TRA consumer v3)	0.077
dermal	systemic	long-term	0.429 mg/kg bw/day (ECETOC TRA consumer v3)	0.086
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.163

20.3.6. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.554 mg/m³ (ECETOC TRA consumer v3)	0.104
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.132

20.3.7. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.238 mg/m³ (ECETOC TRA consumer v3)	0.083
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.111

20.3.8. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.625 mg/m³ (ECETOC TRA consumer v3)	0.042
dermal	systemic	long-term	0.143 mg/kg bw/day	0.029

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

			(ECETOC TRA consumer v3)	
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.07

20.3.9. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	6.25 mg/m³ (ECETOC TRA consumer v3)	0.417
dermal	systemic	long-term	0.357 mg/kg bw/day (ECETOC TRA consumer v3)	0.071
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.488

20.3.10. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.417 mg/m³ (ECETOC TRA consumer v3)	0.028
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.056

20.3.11. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0.298 mg/m³ (ECETOC TRA consumer v3)	0.02
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.048

20.3.12. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
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PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

inhalative	systemic	long-term	0.298 mg/m³ (ECETOC TRA consumer v3)	0.02
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.048

20.3.13. Consumer exposure: Washing and cleaning products (PC35)

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	6.25 mg/m³ (ECETOC TRA consumer v3)	0.417
dermal	systemic	long-term	0.357 mg/kg bw/day (ECETOC TRA consumer v3)	0.071
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.488

20.3.14. Consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_4_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0 mg/m³ (ECETOC TRA consumer v3)	< 0.01
dermal	systemic	long-term	0.036 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		< 0.01

20.3.15. Consumer exposure: Washing and cleaning products (PC35) / AISE_SCED_PC35_5_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	0 mg/m³ (ECETOC TRA consumer v3)	< 0.01
dermal	systemic	long-term	0.143 mg/kg bw/day (ECETOC TRA consumer v3)	0.029
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.029

PRCO90063327

Version: 18.00 / GB (EN)





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Revision Date 23.01.2024

20.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES21: Consumer end-use of air care products

21.1. Title section

Structured Short Title : Consumer use

Environ	ment	
CS1	Consumer end-use of air care products	ERC8a
Consum	er	
CS2	Air care products (non-aerosol)	PC3,
CS3	Air care products (aerosol)	PC3,

21.2. Conditions of use affecting exposure

21.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)			
EU tonnage (T/year)	:	507	
Fraction of EU tonnage used in region:	:	4 %	
Annual amount per site	:	15.21 kg	
Daily amount per site	:	<= 0.042 kg	
Emission Days (days/year):	:	365	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	No specific measures identified.	

21.2.2. Control of consumer exposure: Air care products (PC3) / AISE_SCED_PC3_7_a_1 ()

Product (article) characteristics	
Covers concentrations up to 5 %	
Physical form of product	: No spray
Amount used, frequency and de	uration of use (or from service life)
Exposure frequency	: 1 events/day
Amount per Application	: 2.5 g/event
Use frequency	: Frequent 8 h/event
Other conditions affecting cons	sumers exposure
Body parts exposed	: Assumes that potential dermal contact is limited to fingertips.

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

Indoor or outdoor use : Indoor

21.2.3. Control of consumer exposure: Air care products (PC3) / AISE_SCED_PC3_7_b_1 ()

Product (article) characteristics		
Covers concentrations up to 0.25 %		
Physical form of product	:	Sprays
Amount used, frequency and dura	tion of	use (or from service life)
Exposure frequency	:	2 events/day
Amount per Application	:	10 g/event
Use frequency	:	Frequent 0.25 h/event
Other conditions affecting consun	ners ex	oosure
Indoor or outdoor use	:	Indoor

21.3. Exposure estimation and reference to its source

21.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00573 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000598 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

21.3.2. Consumer exposure: Air care products (PC3) / AISE_SCED_PC3_7_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	1.078 mg/m³ (ECETOC TRA consumer v3)	0.072
dermal	systemic	long-term	0.125 mg/kg bw/day (ECETOC TRA consumer v3)	0.025

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

oral	systemic	· ·	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.097

21.3.3. Consumer exposure: Air care products (PC3) / AISE_SCED_PC3_7_b_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	2.174 mg/m³ (ECETOC TRA consumer v3)	0.145
dermal	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.145

21.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are :

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES22: Consumer, End-uses of polish and wax blends

22.1. Title section

Structured Short Title : Consumer use

Enviror	Environment						
CS1	CS1 Consumer end-use of polishes and wax blends ERC8a						
Consur	mer						
CS2	Polishes, wax / cream, No spraying	PC31,					
CS3	Polishes and wax blends, Spraying	PC31,					

22.2. Conditions of use affecting exposure

22.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)			
EU tonnage (T/year)	:	507	
Fraction of EU tonnage used in region:	:	4 %	
Annual amount per site	:	15.21 kg	
Daily amount per site	:	<= 0.042 kg	
Emission Days (days/year):	:	365	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	No specific measures identified.	

22.2.2. Control of consumer exposure: Polishes and wax blends (PC31) / AISE_SCED_PC31_6_a_1 ()

Product (article) characteristics		
Covers concentrations up to 0.1 %		
Physical form of product	:	No spray
Amount used, frequency and duration	on of ι	use (or from service life)
Exposure frequency	:	1 events/day
Amount per Application	:	550 g/event
Use frequency	:	Infrequent 4 h/event
Other conditions affecting consume	rs exp	posure
Body parts exposed	:	Assumes that potential dermal contact is limited to inside hands / one

PRCO90063327

Version: 18.00 / GB (EN)







Revision Date 23.01.2024

		hand / palm of hands.
Indoor or outdoor use	:	Indoor

22.2.3. Control of consumer exposure: Polishes and wax blends (PC31) / AISE_SCED_PC31_6_b_1 ()

Product (article) characteristics		
Covers concentrations up to 0.1 %		
Physical form of product	:	Sprays
Amount used, frequency and duration	of (use (or from service life)
Exposure frequency	:	1 events/day
Amount per Application	:	135 g/event
Use frequency	:	Infrequent 1 h/event
Other conditions affecting consumers	exp	posure
Body parts exposed	:	Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.
Indoor or outdoor use	:	Indoor

22.3. Exposure estimation and reference to its source

22.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
Freshwater	0.000539 mg/L (EUSES v2.1)	< 0.01
Freshwater sediment	0.0029 mg/kg dry weight (EUSES v2.1)	< 0.01
Marine water	0.0000351 mg/L (EUSES v2.1)	< 0.01
Marine sediment	0.000189 mg/kg dry weight (EUSES v2.1)	< 0.01
Sewage treatment plant	0 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00573 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000598 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

22.3.2. Consumer exposure: Polishes and wax blends (PC31) / AISE_SCED_PC31_6_a_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	8.088 mg/m³ (ECETOC TRA	0.539

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

			consumer v3)	
dermal	systemic	long-term	0.071 mg/kg bw/day (ECETOC TRA consumer v3)	0.014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.554

22.3.3. Consumer exposure: Polishes and wax blends (PC31) / AISE_SCED_PC31_6_b_1 ()

Exposure route	Health effect	Exposure indicator	Exposure level	RCR
inhalative	systemic	long-term	4.219 mg/m³ (ECETOC TRA consumer v3)	0.281
dermal	systemic	long-term	0.071 mg/kg bw/day (ECETOC TRA consumer v3)	0.014
oral	systemic	long-term	0 mg/kg bw/day (ECETOC TRA consumer v3)	< 0.01
combined routes	systemic	long-term		0.296

22.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)





Revision Date 23.01.2024

ES23: Consumer, End use of cosmetic products

23.1. Title section

Structured Short Title : Consumer use

Environment			
CS1	Consumer end-use of cosmetics	ERC8a	
Consum	er		
CS2	Perfumes, fragrances	PC28	
CS3	Cosmetics, personal care products	PC39	

23.2. Conditions of use affecting exposure

23.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Amount used, frequency and duration of use (or from service life)			
EU tonnage (T/year)	:	507	
Fraction of EU tonnage used in region:	:	4 %	
Annual amount per site	:	200 kg	
Daily amount per site	:	<= 0.552 kg	
Emission Days (days/year):	:	365	
Maximum daily local emission to waste water	:	0.552 kg	
Conditions and measures related to treatment of waste (including article waste)			
Waste treatment	:	No specific measures identified.	

23.2.2. Control of consumer exposure: Perfumes, fragrances (PC28)

23.2.3. Control of consumer exposure: Cosmetics, personal care products (PC39)

23.3. Exposure estimation and reference to its source

23.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)

Compartment	Exposure level	RCR
Freshwater	0.00403 mg/L (EUSES v2.1)	0.020
Freshwater sediment	0.022 mg/kg dry weight (EUSES	0.018

PRCO90063327

Version: 18.00 / GB (EN)





AUGEO® CLEAN MULTI

Revision Date 23.01.2024

	v2.1)	
Marine water	0.000384 mg/L (EUSES v2.1)	0.019
Marine sediment	0.00206 mg/kg dry weight (EUSES v2.1)	0.017
Sewage treatment plant	0.035 mg/L (EUSES v2.1)	< 0.01
Agricultural soil	0.00704 mg/kg dry weight (EUSES v2.1)	< 0.01
Man via environment - Inhalation	0.0000775 mg/m³ (EUSES v2.1)	< 0.01
Man via environment - Oral	0.000633 mg/kg bw/day (EUSES v2.1)	< 0.01
Man via environment - combined routes		< 0.01

23.3.2. Consumer exposure: Perfumes, fragrances (PC28)

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

23.3.3. Consumer exposure: Cosmetics, personal care products (PC39)

Additional information on exposure estimation

In accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.

23.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

If a DU has OC/RMMs outside specifications in the ES, then the DU can evaluate whether he works inside the boundaries set by the ES through scaling in EUSES.

The main driving parameters are:

- local amount used (tonnage)
- release factor prior to on-site treatment
- on-site wastewater treatment presence and efficiency
- dilution factor

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Human Health

Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

PRCO90063327

Version: 18.00 / GB (EN)

