Revision Date 07.06.2016

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

#### **1.1 Product identifier**

\_

Trade name -CAS-No.

AUGEO CLEAN MULTI 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

# 1.3 Details of the supplier of the safety data sheet

#### Company

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

#### 1.4 Emergency telephone number

01733 963029

# **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

#### Regulation (EC) No 1272/2008

Hazardous products which must be listed on the label

• CAS-No. 100-79-8 2,2-dimethyl-1,3-dioxolan-4-ylmethanol

Pictogram



Causes serious eye irritation.

# **Precautionary statements**

Prevention P264

Wash skin thoroughly after handling.

PRCO90063327 Version: 7.00 / GB (EN)

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 1 of 82

- P280

Wear protective gloves/ eye protection/ face protection.

 Response
 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

#### Information on Components and Impurities

| Chemical name                          | Identification<br>number  | Classification<br>Regulation (EC) No 1272/2008 | Concentration [%] |
|--|---------------------------|--|-------------------|
| 2,2-dimethyl-1,3-dioxolan-4-ylmethanol | CAS-No. :<br>100-79-8     | Eye irritation, Category 2 ; H319              | >= 99 - <= 100    |
|  | EINECS-No. :<br>202-888-7 |  |                   |
|  | Registration number       | <br>:: 01-2120066005-66-0000                   |                   |
|  | self classification       |  |                   |

# 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

- Show this safety data sheet to the doctor in attendance.
- First aider needs to protect himself.
- Place affected clothing in a sealed bag for subsequent decontamination.

#### In case of inhalation

- Move to fresh air.
- Keep at rest.
- Consult a physician if necessary.

#### In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off with soap and plenty of water.
- If skin irritation occurs, seek medical advice/attention.

#### In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician

#### In case of ingestion

- Do NOT induce vomiting.
- Rinse mouth with water.

PRCO90063327

Version : 7.00 / GB (EN)

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

- Do not give anything to drink.
  - Consult a physician if necessary.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Effects

- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to physician

- Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

- Foam
- Dry powder
- Water mist
- Carbon dioxide (CO2)
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

- High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

- Combustible liquid.
- Heating increases the inner pressure of the bottle, risk of explosion.

#### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool containers/tanks with water spray.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

- Keep away from flames and sparks.
- Store away from heat.
- Evacuate personnel to safe areas.
- Avoid contact with the skin and the eyes.
- Use personal protective equipment.
- For personal protection see section 8.
- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Remove all incompatible materials as quickly as possible
- Mark the contaminated area with signs and prevent access to unauthorized personnel.

#### 6.2 Environmental precautions

- Dam up.
- Prevent product from entering sewage system.

PRCO90063327 Version : 7.00 / GB ( EN )

#### Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 3 of 82

- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and materials for containment and cleaning up

#### Recovery

- Collect spillage.
- Pick up and transfer to properly labelled containers.
- Keep in suitable, closed containers for disposal.

#### Neutralization

 Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### Decontamination/cleaning

- Pick up contaminated soil.
- Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Pick up and transfer to properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

#### Disposal

- Dispose of contents/ container to an approved waste disposal plant.
- The product should not be allowed to enter drains, water courses or the soil.
- Dispose of in accordance with local regulations.

#### Additional advice

- Remove all incompatible materials as quickly as possible

#### 6.4 Reference to other sections

- no data available

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

- Provide adequate ventilation.
- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Avoid inhalation, ingestion and contact with skin and eyes.

#### Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well-maintained personal protection equipment.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

- The floor of the depot should be impermeable and designed to form a water-tight basin.
- Keep only in the original container.
- Keep away from heat and sources of ignition.
- Keep in a dry, cool and well-ventilated place.

#### Packaging material

#### Suitable material

- Unlined steel
- Plastic container of HDPE

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 4 of 82

#### Requirements for storage rooms and vessels

- Protect from frost, heat and sunlight.

#### 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.

#### 8.2 Exposure controls

#### Individual protection measures

#### **Respiratory protection**

- Use a respirator with an approved filter if a risk assessment indicates this is necessary.

#### Hand protection

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

#### Eye protection

- Tightly fitting safety goggles

#### Skin and body protection

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Remove and wash contaminated clothing.

#### Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well-maintained personal protection equipment.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.

#### **Protective measures**

- 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 local standards and in cooperation with the supplier of the protective equipment.

Page 5 of 82

#### 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.

Revision Date 07.06.2016

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

| <u>Appearance</u>  | <u>Form</u> :<br><u>Physical state:</u><br><u>Colour</u> :                       | liquid<br>liquid<br>colourless          |
|--|--|---|
| <u>Odour</u><br><u>Odour Threshold</u><br><u>Molecular weight</u><br><u>pH</u>   | slight<br>no data available<br>132.16 g/mol<br>Not applicable                    |   |
| Melting point/freezing point   | Freezing point: -  | 9° 90                                   |
| Initial boiling point and boiling range  | Boiling point/boili  | <u>ng range</u> : 191 °C (1,013.25 hPa) |
| Flash point  | 91 °C closed cup   |   |
|  | 100 °C open cup  |   |
| Evaporation rate (Butylacetate = 1)  | 0.03   |   |
| <u>Flammability (solid, gas)</u><br><u>Flammability (liquids)</u><br><u>Flammability/Explosive limit</u><br><u>Auto-ignition temperature</u> | no data available<br>no data available<br>no data available<br>no data available |   |
| Vapour pressure  | 0.05 hPa (20 °C  | ;)                                      |
| Vapour density   | 2.6  |   |
| <u>Density</u>   |  |   |
| <u>Relative density</u><br><u>Solubility</u>   | 1.069(20 °C)<br><u>Water solubility</u> :<br>(20 °C)complete                     | ely soluble                             |
|  | Solubility in other<br>Alcohol : miscible  | solvents:                               |
|  | Esters : miscible  |   |
|  | Ether : miscible   |   |
|  | Aromatic hydroca   | arbons : miscible                       |
|  | petroleum ether.   | : miscible                              |
|  | petrol : miscible  |   |

PRC090063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 6 of 82

Revision Date 07.06.2016

| Partition coefficient: n-octanol/water       | no data available                             |
|--|---|
| Decomposition temperature                    | no data available                             |
| <u>Viscosity</u>                             | <u>Viscosity, dynamic</u> : 11 mPa.s ( 20 °C) |
| Explosive properties                         | no data available                             |
| Oxidizing properties                         | no data available                             |
| 9.2 Other information <u>Surface tension</u> | 33.5 mN/m (20 °C)                             |

| SECTION 10: Stat | bility and reactivity |
|------------------|-----------------------|
|------------------|-----------------------|

#### 10.1 Reactivity

- Not classified as a reactivity hazard.

#### 10.2 Chemical stability

- Stable at room temperature.
- Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

- Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

- Heat, flames and sparks.

#### 10.5 Incompatible materials

- Strong oxidizing agents
- Strong acids

#### **10.6 Hazardous decomposition products**

- On combustion or on thermal decomposition (pyrolysis) releases:
- (Carbon oxides (CO + CO2)).
- Acetic acid
- Ethanol

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

#### 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

Revision Date 07.06.2016

| LC50: > 5.11 mg/I - Rat , male and female<br>Method: OECD Test Guideline 403<br>The product has a low acute toxicity<br>Unpublished internal reports                                   |
|--|
| LD50: 2,000 mg/kg -Rat , male and female<br>Method: OECD Test Guideline 402<br>Not classified as hazardous for acute dermal toxicity according to GHS.<br>Unpublished internal reports |
| no data available  |
|  |
| Rabbit<br>No skin irritation<br>Method: OECD Test Guideline 404<br>Unpublished internal reports  |
|  |
| Rabbit<br>irritating<br>Method: OECD Test Guideline 405<br>Unpublished internal reports  |
|  |
| Maximisation Test - Guinea pig<br>Does not cause skin sensitisation.<br>Method: OECD Test Guideline 406<br>Unpublished internal reports  |
|  |
|  |
| Ames test<br>with and without metabolic activation   |
| negative<br>Method: OECD Test Guideline 471<br>Unpublished internal reports  |
| In vivo micronucleus test - Mouse<br>male<br>Intraperitoneal route<br>Method: OECD Test Guideline 474  |
| negative<br>Unpublished internal reports   |
| no data available  |
|  |

| Toxicity for reproduction and developme  | ent  |
|--|--|
| <b>Toxicity to reproduction/Fertility</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol    | Reproduction/developmental toxicity screening test - Rat , male and female<br>Oral<br>NOAEL parent: 1,000 mg/kg<br>Method: OECD Test Guideline 422<br>Highest dose tested<br>no impairment of fertility has been observed<br>Unpublished internal reports  |
| <b>Developmental Toxicity/Teratogenicity</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol | Rat , male and female<br>Application Route: Oral<br>NOAEL teratogenicity: 1,000 mg/kg<br>NOAEL maternal: 1,000 mg/kg<br>Method: OECD Test Guideline 422<br>Highest dose tested<br>The product is not considered to be toxic for development.<br>A testing proposal has been submitted to ECHA.<br>Unpublished internal reports |
| <u>STOT</u>  |  |
| <b>STOT - single exposure</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol                | Exposure routes: Ingestion, Skin contact, Inhalation<br>The substance or mixture is not classified as specific target organ toxicant, single<br>exposure according to GHS criteria.<br>internal evaluation   |
| <b>STOT - repeated exposure</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol              | Exposure routes: Ingestion<br>The substance or mixture is not classified as specific target organ toxicant,<br>repeated exposure according to GHS criteria.<br>internal evaluation   |
| 2,2-dimethyl-1,3-dioxolan-4-ylmethanol   | Oral - Rat , male and female<br>NOAEL: 1000 mg/kg<br>Method: OECD Test Guideline 422<br>Highest dose tested<br>No significant adverse effects were reported<br>A testing proposal has been submitted to ECHA.<br>Unpublished internal reports  |
| Aspiration toxicity  | no data available  |

# **SECTION 12: Ecological information**

# 12.1 Toxicity

| Aquatic Compartment    |  |
|------------------------|--|
| Acute toxicity to fish | LC50 - 96 h : 16,700 mg/l - Pimephales promelas (fathead minnow) |

| Acute toxicity to daphnia and other aquatic invertebrates.                  | LC50 - 24 h : > 1,000 mg/l - Daphnia similis (water flea)  |
|---|--|
|   | LC50 - 48 h : > 1,000 mg/l - Daphnia similis (water flea)  |
| <b>Toxicity to aquatic plants</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol | ErC50 - 72 h : > 92 mg/l - Pseudokirchneriella subcapitata (green algae)<br>static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>Not harmful to algae (EC50 > 100 mg/L)<br>Unpublished internal reports                                       |
|   | NOEC - 72 h : 92 mg/l - Pseudokirchneriella subcapitata (green algae)<br>static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 201<br>No adverse chronic effect observed up to and including the threshold of 1 mg/L.<br>Unpublished internal reports |
| <b>Toxicity to microorganisms</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol | EC50 - 3 h : > 1,000 mg/l - activated sludge<br>static test<br>Analytical monitoring: no<br>Method: OECD Test Guideline 209<br>Unpublished internal reports  |
| Chronic toxicity to fish  | no data available  |
| Chronic toxicity to daphnia and other aquatic invertebrates.                | no data available  |
| Chronic Toxicity to aquatic plants  | no data available  |
| 2.2 Persistence and degradability   |  |
| Abiotic degradation   |  |
| <b>Stability in water</b><br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol         | pH: 4.0<br>Temperature of hydrolysis: 25 °C<br>Degree of hydrolysis: 50 %<br>Hydrolysis time: 0.959 Days<br>Method: OECD Test Guideline 111<br>Unpublished internal reports,   |
| Physical- and photo-chemical elimination                                    | no data available  |
| Biodegradation  |  |
| Biodegradability  | Zahn-Wellens Test<br>Inherently biodegradable.   |
|   |  |
| Degradability assessment  |  |

PRC Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 10 of 82

Revision Date 07.06.2016

2,2-dimethyl-1,3-dioxolan-4-ylmethanol The product is not considered to be rapidly degradable in the environment

| 12.3 Bioaccumulative potential                                       |  |
|--|--|
| Partition coefficient: n-<br>octanol/water                           | Not potentially bioaccumulable   |
| Bioconcentration factor (BCF)  | Bioconcentration factor (BCF): 1.3   |
| 12.4 Mobility in soil  |  |
| Adsorption potential (Koc)<br>2,2-dimethyl-1,3-dioxolan-4-ylmethanol | Adsorption/Soil<br>Log Koc: < 1.25<br>Method: OECD Test Guideline 121<br>Unpublished internal 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).<br>This substance is not considered to be very persistent and very bioaccumulating (vPvB). |
| 12.6 Other adverse effects   | no data available  |

### Ecotoxicity assessment

Acute aquatic toxicity 2,2-dimethyl-1,3-dioxolan-4-ylmethanol Not harmful to aquatic life (LC/EC50 > 100 mg/L)

#### Chronic aquatic toxicity

2,2-dimethyl-1,3-dioxolan-4-ylmethanol Does not have any known long-term adverse effects on the aquatic organisms tested

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product Disposal

- Do not dispose of with domestic refuse.
- Dispose of in accordance with local regulations.
- The product should not be allowed to enter drains, water courses or the soil.
- Dispose of contents/ container to an approved waste disposal plant.
- Send to a licensed waste management company.

#### Advice on cleaning and disposal of packaging

- Do not re-use empty containers.
- Clean container with water.
- Dispose of contents/ container to an approved incineration plant.

PRCO90063327 Version : 7.00 / GB(EN)

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 11 of 82

- Dispose of in accordance with local regulations.

# **SECTION 14: Transport information**

ADR

not regulated

RID not regulated

IMDG not regulated

IATA not regulated

ADN/ADNR

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   | - On TSCA Inventory   |
| Canadian Domestic Substances List (DSL)  | - All components of this product are on the Canadian DSL          |
| Australia Inventory of Chemical Substances (AICS)  | - On the inventory, or in compliance with the inventory           |
| Japan. CSCL - Inventory of Existing and New Chemical Substances                          | - On the inventory, or in compliance with the inventory           |
| Korea. Korean Existing Chemicals Inventory (KECI)  | - On the inventory, or in compliance with the inventory           |
| China. Inventory of Existing Chemical Substances in China (IECSC)                        | - On the inventory, or in compliance with the inventory           |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS)                       | - Listed on Inventory   |
| EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH) | <ul> <li>Our supplier is in compliance with<br/>REACH.</li> </ul> |

#### 15.2 Chemical safety assessment

- no data available

PRCO90063327 Version : 7.00 / GB ( EN )

Revision Date 07.06.2016

# **SECTION 16: Other information**

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

- H319 Causes serious eye irritation.

# **Further information**

- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.
- 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.

# Annex

**Scenario List** 

| 14      |
|---------|
| ersonal |
|         |
|         |
|         |
|         |
|         |
|         |
| 69      |
| 72      |
| 78      |
| 79      |
|         |
|         |
|         |

# 1. ES1 : Formulation, On site

| 1. Scenario description |         |  |
|-------------------------|---------|--|
| Main User Groups        | : SU 3  | Industrial uses: Uses of substances as such or in preparations at industrial sites   |
| Process category        | : PROC3 | Use in closed batch process (synthesis or formulation)   |
|                         | PROC8b  | Transfer of substance or preparation (charging/ discharging) from<br>to vessels/ large containers at dedicated facilities      |
|                         | PROC15  | Use as laboratory reagent  |
|                         | PROC5   | Mixing or blending in batch processes for formulation of<br>preparations and articles (multistage and/ or significant contact) |

# 1.2. Conditions of use affecting exposure

# 1.2.1 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation)

| Product characteristics<br>Concentration of the Sub<br>Mixture/Article<br>Physical Form (at time or<br>Process Temperature<br>Remarks | (unless stated differently).  | )0 % |
|---|---|------|
| Frequency and duration of Exposure duration   | se<br>: < 8 h   |      |
| ·   | affecting workers exposure  |      |
| Outdoor / Indoor<br>Remarks   | : Indoor<br>: Use in closed process   |      |
| PRCO90063327  |   |      |
| Version: 7.00 / GB (EN)   |   |      |
|   | ful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>11733 963029 Email: hello@craftiful.co.uk |      |
|   | Page 14 of 82   |      |

# **Technical conditions and measures** Provide a basic standard of general ventilation (1 to 3 air changes per hour). Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %) 1.2.2 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, < 8h Product characteristics Concentration of the Substance in Covers the percentage of the substance in the product up to 100 % Mixture/Article (unless stated differently). Physical Form (at time of use) liquid <= 40 °C **Process Temperature** Remarks Low vapour pressure Frequency and duration of use Exposure duration : <8h Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor Remarks : Semi-closed system, With occasional controlled exposure. Technical conditions and measures Provide a basic standard of general ventilation (1 to 3 air changes per hour). Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eve protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 90 %) 1.2.3 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, <15 min Product characteristics Concentration of the Substance in Covers the percentage of the substance in the product up to 100 % Mixture/Article (unless stated differently). Physical Form (at time of use) liauid Process Temperature <= 40 °C Remarks : Low vapour pressure Frequency and duration of use Exposure duration : < 15 min PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 15 of 82

|   | : Indoor  |
|---|---|
| Remarks   | : Semi-closed system, With occasional controlled exposure.  |
| Technical conditions and measures   |   |
|   | entilation (1 to 3 air changes per hour) .  |
|   |   |
|   | /limit releases, dispersion and exposure  |
| Assumes a good basic standard of oc<br>Avoid splashing.   | cupational hygiene is implemented.  |
| Avoid spidshing.  |   |
| Conditions and measures related to u  | personal protection, hygiene and health evaluation  |
|   | also via contamination on hands., General measures (eye irritants), Use   |
|   | ted to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| a measure): 90 %)   |   |
|   |   |
| .2.4 Contributing scenario controllin   | ng worker exposure for: PROC15 Use as laboratory reagent  |
|   |   |
| Product characteristics<br>Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 %   |
| Mixture/Article   | (unless stated differently).  |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
| Frequency and duration of use   |   |
| Exposure duration   | : <1h   |
| Other operational conditions affectin   |   |
| Outdoor / Indoor  | : Indoor  |
| Technical conditions and measures   |   |
| Provide a basic standard of general ve  | entilation (1 to 3 air changes per hour) .  |
|   |   |
| Tranisational measures to prevent   | limit releases, dispersion and exposure   |
|   | <b>/limit releases, dispersion and exposure</b><br>cupational hygiene is implemented.   |
| <b>Organisational measures to prevent</b> <i>I</i><br>Assumes a good basic standard of oc<br>Avoid splashing.   |   |
| Assumes a good basic standard of oc<br>Avoid splashing.   | cupational hygiene is implemented.  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p   | cupational hygiene is implemented.  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,   | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test   | cupational hygiene is implemented.  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,   | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)  | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)  | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>ng worker exposure for: PROC5 Mixing or blending in batch processes for formulation  |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)<br>1.2.5 Contributing scenario controllin  | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>mg worker exposure for: PROC5 Mixing or blending in batch processes for formulatio   |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)<br>1.2.5 Contributing scenario controllin<br>of preparations and articles (multista<br>Product characteristics   | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>ng worker exposure for: PROC5 Mixing or blending in batch processes for formulatio<br>and/ or significant contact)   |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)<br>I.2.5 Contributing scenario controllin<br>of preparations and articles (multistate<br>Product characteristics<br>Concentration of the Substance in                    | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>mg worker exposure for: PROC5 Mixing or blending in batch processes for formulatio   |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)<br>I.2.5 Contributing scenario controllin<br>of preparations and articles (multistate<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>mg worker exposure for: PROC5 Mixing or blending in batch processes for formulation<br>uge and/ or significant contact)<br>Covers the percentage of the substance in the product up to 5%. |
| Assumes a good basic standard of oc<br>Avoid splashing.<br>Conditions and measures related to p<br>Avoid direct eye contact with product,<br>Wear chemically resistant gloves (test<br>a measure): 90 %)<br>1.2.5 Contributing scenario controllin<br>of preparations and articles (multistate<br>Product characteristics<br>Concentration of the Substance in                    | cupational hygiene is implemented.<br>personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ted to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>ng worker exposure for: PROC5 Mixing or blending in batch processes for formulation<br>and or significant contact)   |

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 16 of 82

| Frequency and duration of use     |   |
|-----------------------------------|---|
| Exposure duration                 | : <4 h  |
| Other operational conditions affe | acting workers exposure   |
| Outdoor / Indoor                  | : Indoor  |
| Technical conditions and measur   | res   |
|                                   | ral ventilation (1 to 3 air changes per hour).  |
|                                   |   |
| •                                 | ent /limit releases, dispersion and exposure<br>of occupational hygiene is implemented. |
| Avoid splashing.                  |   |
| Conditions and measures related   | I to personal protection, hygiene and health evaluation                                 |
|                                   | luct, also via contamination on hands., General measures (eye irritants), Use           |
|                                   | (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of     |
|                                   |   |
| 1.3. Exposure estimation and refe |   |

# Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

# 1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

# 2. ES2 : Formulation, Used for formulation of homecare products, Used for formulation of personal care products

#### 2.1. Scenario description

| Main User Groups | : SU 3  | Industrial uses: Uses of substances as such or in preparations at industrial sites  |
|------------------|---------|---|
| Process category | : PROC1 | Use in closed process, no likelihood of exposure  |
|                  | PROC2   | Use in closed, continuous process with occasional controlled exposure   |
|                  | PROC3   | Use in closed batch process (synthesis or formulation)  |
|                  | PROC4   | Use in batch and other process (synthesis) where opportunity for exposure arises  |
|                  | PROC15  | Use as laboratory reagent   |
|                  | PROC8b  | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities      |
|                  | PROC5   | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) |
|                  | PROC14  | Production of preparations or articles by tabletting, compression,<br>extrusion, pelletisation                              |
|                  | PROC9   | Transfer of substance or preparation into small containers (dedicated filling line, including weighing)                     |
|                  | PROC8a  | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities  |

#### 2.2. Conditions of use affecting exposure

# 2.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, OC8 Indoor

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | <ul> <li>Covers the percentage of the substance in the product up to 100 % (unless stated differently).</li> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> </ul> |
|--|--|
| Frequency and duration of use  |  |
| Exposure duration  | : <1h  |
| Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks  | g workers exposure<br>: Indoor<br>: Use in closed process  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ve   | entilation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /<br>Assumes a good basic standard of occ<br>Avoid splashing.   | limit releases, dispersion and exposure cupational hygiene is implemented.   |

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

PRCO90063327 Version : 7.00 / GB ( EN )

| local exhaust ventilation, Gloves  | worker exposure for: PROC2 Use in closed, continuous process with occasior sed batch process (synthesis or formulation), OC8 Indoor, <1 hr, CS110 witho   |
|--|---|
| Product characteristics  |   |
| Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 %   |
| Mixture/Article  | (unless stated differently).  |
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | : <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| requency and duration of use   |   |
| Exposure duration  | : <1h   |
| ther operational conditions affecting  | workers exposure  |
| Outdoor / Indoor   | : Indoor  |
| Remarks  | : Use in closed process   |
|  |   |
| echnical conditions and measures<br>Provide a basic standard of general ven  | tilation (1 to 3 air changes per hour)  |
| 5  |   |
| rganisational measures to prevent /lir   | nit releases, dispersion and exposure   |
| Assumes a good basic standard of occu  |   |
| Avoid splashing.   |   |
| , troid opidorning.  |   |
| a measure): 80 %)  | to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| a maasuroj. 00 /0j   |   |
|  | worker exposure for: PROC4 Use in batch and other process (synthesis) wher  |
| .2.3 Contributing scenario controlling portunity for exposure arises   | worker exposure for: PROC4 Use in batch and other process (synthesis) wher  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics   |   |
| .2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 %   |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article  | Covers the percentage of the substance in the product up to 100 % (unless stated differently).  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid   |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature   | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C   |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid   |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>requency and duration of use  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C   |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>requency and duration of use<br>Exposure duration   | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>requency and duration of use<br>Exposure duration<br>ther operational conditions affecting  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>roduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>requency and duration of use<br>Exposure duration   | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>workers exposure  |
| 2.2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>workers exposure<br>: Indoor  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Prequency and duration of use<br>Exposure duration<br>Pther operational conditions affecting<br>Outdoor / Indoor<br>Remarks<br>Prechnical conditions and measures      | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>workers exposure<br>: Indoor<br>: Semi-closed system, With occasional controlled exposure.  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Prequency and duration of use<br>Exposure duration<br>Pther operational conditions affecting<br>Outdoor / Indoor<br>Remarks<br>Provide a basic standard of general ven | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 1 h<br>workers exposure<br>: Indoor<br>: Semi-closed system, With occasional controlled exposure. |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Prequency and duration of use<br>Exposure duration<br>Pther operational conditions affecting<br>Outdoor / Indoor<br>Remarks<br>Provide a basic standard of general ven | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>workers exposure<br>: Indoor<br>: Semi-closed system, With occasional controlled exposure.  |
| 2.3 Contributing scenario controlling<br>pportunity for exposure arises<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Prequency and duration of use<br>Exposure duration<br>Pther operational conditions affecting<br>Outdoor / Indoor<br>Remarks<br>Provide a basic standard of general ven | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>workers exposure<br>: Indoor<br>: Semi-closed system, With occasional controlled exposure.  |

Avoid splashing.

PRCO90063327 Version : 7.00 / GB ( EN )

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 2.2.4 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), <1 hr, CS109 with local exhaust ventilation, Without gloves

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|--|--|
| Frequency and duration of use  |  |
| Exposure duration  | : <1h  |
| Other operational conditions affecting v<br>Outdoor / Indoor<br>Remarks  | workers exposure<br>: Indoor<br>: Use in closed process  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general vent<br>with local exhaust ventilation, Inhalation                         | ilation (1 to 3 air changes per hour) .<br>exposure (Effectiveness (of a measure): 90 %)   |
| Organisational measures to prevent /lin<br>Assumes a good basic standard of occup<br>Avoid splashing.  |  |

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Risk of aerosols formation, Wear respiratory protection.

# 2.2.5 Contributing scenario controlling worker exposure for: PROC3 Use in closed batch process (synthesis or formulation), <15 min

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|--|--|
| Frequency and duration of use  |  |
| Exposure duration  | : < 15 min   |
| Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks  | y workers exposure<br>: Indoor<br>: Use in closed process  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ver  | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>PRCO90063327   | imit releases, dispersion and exposure   |

Page 20 of 82

Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 2.2.6 Contributing scenario controlling worker exposure for: PROC15 Use as laboratory reagent

#### **Product characteristics**

| Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks               | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|--|--|
| Frequency and duration of use  |  |
| Exposure duration  | : <1h  |
| Other operational conditions affecting w<br>Outdoor / Indoor   | <b>rorkers exposure</b><br>: Indoor  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ventil<br>with local exhaust ventilation, Inhalation e | lation (1 to 3 air changes per hour) .<br>exposure (Effectiveness (of a measure): 90 %)  |
| Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing.                                  |  |

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 2.2.7 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

| Product characteristics<br>Concentration of the Subst<br>Mixture/Article<br>Physical Form (at time of u<br>Process Temperature<br>Remarks | (unless stated differently).   |
|---|--|
| Frequency and duration of   | use  |
| Exposure duration   | : <1h  |
| Other operational conditior   | is affecting workers exposure  |
| Outdoor / Indoor  | : Indoor   |
| Remarks   | : Semi-closed system, With occasional controlled exposure.   |
|   | neasures<br>general ventilation (1 to 3 air changes per hour) .<br>n, Inhalation exposure (Effectiveness (of a measure): 95 %) |
| PRC090063327  |  |
| Version : 7.00 / GB (EN)<br>Cra   | aftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD   |

Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 21 of 82

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

Product characteristics

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

# 2.2.8 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)

| Product characteristics<br>Concentration of the S<br>Mixture/Article<br>Physical Form (at time<br>Process Temperature<br>Remarks        | (unless stated differently).  |
|---|---|
| Frequency and duratior<br>Exposure duration   | a of use<br>: <8 h  |
| Other operational condi<br>Outdoor / Indoor   | tions affecting workers exposure<br>: Indoor  |
|   | nd measures<br>d of general ventilation (1 to 3 air changes per hour) .<br>lation, Inhalation exposure (Effectiveness (of a measure): 90 %)   |
|   | es to prevent /limit releases, dispersion and exposure<br>standard of occupational hygiene is implemented.  |
| Avoid direct eye contac<br>suitable eye protection.   | es related to personal protection, hygiene and health evaluation<br>t with product, also via contamination on hands., General measures (eye irritants), Use<br>ant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of |
|   | ario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>essels/ large containers at non-dedicated facilities  |
| <b>Product characteristics</b><br>Concentration of the S<br>Mixture/Article<br>Physical Form (at time<br>Process Temperature<br>Remarks | ubstance in Covers the percentage of the substance in the product up to 100 % (unless stated differently).  |
| Frequency and duration<br>Exposure duration   | a of use<br>: <1 h  |
| Other operational condi   | tions affecting workers exposure  |
| PRCO90063327<br>Version : 7.00 / GB ( EN )  | Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>Tel: 01733 963029 Email: hello@craftiful.co.uk<br>Page 22 of 82   |

Revision Date 07.06.2016

| Product characteristics<br>Concentration of the Substance in   | Covers the percentage of the substance in the product up to 100 %  |  |  |  |
|--|--|--|--|--|
| 2.2.10 Contributing scenario controllir compression, extrusion, pelletisation  | g worker exposure for: PROC14 Production of preparations or articles by tabletting,  |  |  |  |
| Avoid direct eye contact with product, a suitable eye protection.  | ersonal protection, hygiene and health evaluation<br>lso via contamination on hands., General measures (eye irritants), Use<br>d to EN374) in combination with 'basic' employee training. (Effectiveness (of |  |  |  |
| Organisational measures to prevent /limit releases, dispersion and exposure<br>Assumes a good basic standard of occupational hygiene is implemented.<br>Avoid splashing. |  |  |  |  |
| Technical conditions and measures<br>Provide a basic standard of general ver<br>with local exhaust ventilation, Inhalation   | ntilation (1 to 3 air changes per hour) .<br>n exposure (Effectiveness (of a measure): 90 %)   |  |  |  |
| Outdoor / Indoor   | : Indoor   |  |  |  |

| Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks                 | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|--|--|
| Frequency and duration of use  |  |
| Exposure duration  | : <8h  |
| Other operational conditions affecting wo<br>Outdoor / Indoor  | orkers exposure<br>: Indoor  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ventila<br>with local exhaust ventilation, Inhalation ex | ation (1 to 3 air changes per hour) .<br>cposure (Effectiveness (of a measure): 90 %)  |
| Organisational measures to prevent /limit<br>Assumes a good basic standard of occupa<br>Avoid splashing.                                 |  |

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Risk of aerosols formation, Wear respiratory protection.

# 2.2.11 Contributing scenario controlling worker exposure for: PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|---|--|
| PRCO90063327  |  |

Version : 7.00 / GB (EN)

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 23 of 82

| requency and duration of use<br>Exposure duration                        | : < 8 h  |
|--|--|
|  | . < 011  |
| Other operational conditions affection                                   |  |
| Outdoor / Indoor   | : Indoor   |
| Remarks  | : Semi-closed system, With occasional controlled exposure.   |
| echnical conditions and measures   |  |
| Provide a basic standard of general v                                    | entilation (1 to 3 air changes per hour) .   |
| with local exhaust ventilation, Inhalation                               | on exposure (Effectiveness (of a measure): 90 %)   |
|  |  |
|  | /limit releases, dispersion and exposure   |
| Assumes a good basic standard of oc                                      | cupational hygiene is implemented.   |
| Avoid splashing.   |  |
| anditions and massures related to  | narconal protection, bygione and boalth evolution  |
| Avoid direct eve contact with product                                    | personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)                                       |
|  | ted to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
| a measure): 80 %)  |  |
|  |  |
|  |  |
|  | ing worker exposure for: PROC8a Transfer of substance or preparation (charging containers at non-dedicated facilities, CS39 Equipment cleaning and maintenance |
|  |  |
| roduct characteristics   |  |
| Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 %  |
| Mixture/Article  | (unless stated differently).   |
| Physical Form (at time of use)   | : liquid   |
| Process Temperature  | : <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : <4 h   |
| Other operational conditions affectin                                    | n workers exposure   |
| Outdoor / Indoor   | : Indoor   |
| echnical conditions and measures   |  |
|  | entilation (1 to 3 air changes per hour).  |
|  |  |
| organisational measures to prevent                                       | /limit releases, dispersion and exposure   |
| Assumes a good basic standard of oc                                      |  |
| Avoid splashing.   |  |
|  |  |
|  | personal protection, hygiene and health evaluation   |
|  | also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.   |  |
| a measure): 80 %)  | ted to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
|  |  |
|  |  |
| 0.40 Contribution and in the   |  |
| 2.13 Contributing scenario controll<br>ROC2 Use in closed, continuous pr | ing worker exposure for: PROC1 Use in closed process, no likelihood of exposure<br>ocess with occasional controlled exposure, OC9 Outdoor                      |

Product characteristics Concentration of the Substance in

Covers the percentage of the substance in the product up to 100 %

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 24 of 82

Revision Date 07.06.2016

| Mixture/Article                                    | (unless stated differently). |
|--|------------------------------|
| Physical Form (at time of use)                     | : liquid                     |
| Process Temperature                                | : <= 40 °C                   |
| Remarks  | : Low vapour pressure        |
| Frequency and duration of use<br>Exposure duration | : < 15 min                   |
| Other operational conditions affecting             | workers exposure             |
| Outdoor / Indoor                                   | : Outdoor                    |
| Remarks  | : Use in closed process      |

Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented.

Avoid splashing.

**Conditions and measures related to personal protection, hygiene and health evaluation** Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 2.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Revision Date 07.06.2016

# 3. ES3 : Professional end-use of polishes and wax blends (IFRA GES 5)

| 1. Scenario description |         |  |
|-------------------------|---------|--|
| Main User Groups        | : SU22  | Professional uses: Public domain (administration, education, entertainment, services, craftsmen)                             |
| Process category        | : PROC1 | 0 Roller application or brushing   |
|                         | PROC1   | 1 Non industrial spraying  |
|                         | PROC8   | a Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities |
|                         | PROC2   |  |

# 3.2. Conditions of use affecting exposure

# 3.2.1 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, < 8h

| Concentration of the Substand   |  |
|---|--|
|   | ce in Covers percentage substance in the product up to 1 %.  |
| Mixture/Article   |  |
| Physical Form (at time of use)<br>Process Temperature   | ) : liquid<br>: <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Remains   | . Low vapour pressure  |
| Frequency and duration of use   | 9  |
| Exposure duration   | : <8h  |
| Other operational conditions a  | affecting workers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Technical conditions and mas  |  |
| Technical conditions and mea  |  |
| Provide a basic standard of ge  | neral ventilation (1 to 3 air changes per hour) .  |
|   |  |
|   | revent /limit releases, dispersion and exposure  |
|   | rd of occupational hygiene is implemented.   |
| Avoid splashing.  |  |
|   |  |
| Conditions and measures rela  | ted to personal protection, hygiene and health evaluation  |
|   | roduct, also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.  | ·····, ······, ······, ······, ······,   |
|   |  |
|   |  |
| 3.2.2 Contributing scenario co  | ntrolling worker exposure for: PROC11 Non industrial spraying  |
|   |  |
|   |  |
| Product characteristics   |  |
| Product characteristics<br>Concentration of the Substand  | ce in Covers percentage substance in the product up to 1 %.  |
|   | ce in Covers percentage substance in the product up to 1 %.  |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use   | ) : liquid   |
| Concentration of the Substand<br>Mixture/Article  | ) : liquid<br>: <= 40 °C   |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use   | ) : liquid   |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks  | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure  |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature   | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure  |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration  | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min  |
| Concentration of the Substant<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions at   | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>affecting workers exposure  |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration  | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min  |
| Concentration of the Substand<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions a<br>Outdoor / Indoor  | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>affecting workers exposure  |
| Concentration of the Substant<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions at   | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>affecting workers exposure  |
| Concentration of the Substant<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions a<br>Outdoor / Indoor<br>PRC090063327<br>Version : 7.00 / GB (EN )             | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>affecting workers exposure<br>: Indoor<br>ul Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD |
| Concentration of the Substant<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions a<br>Outdoor / Indoor<br>PRC090063327<br>Version : 7.00 / GB (EN )<br>Craftifu | ) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>affecting workers exposure<br>: Indoor  |

Page 26 of 82

| <b>Technical conditions and</b><br>Provide a basic standard            |   | on (1 to 3 air changes per hour) .  |
|--|---|---|
|  |   | releases, dispersion and exposure<br>onal hygiene is implemented.   |
|  |   | nal protection, hygiene and health evaluation<br>ria contamination on hands., General measures (eye irritants)  |
| 3.2.3 Contributing scenari products, Furniture care                    |   | rker exposure for: PROC10 Roller application or brushing, maintenance care product  |
|  |   |   |
| Product characteristics<br>Concentration of the Sub<br>Mixture/Article | ostance in  | Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of  |   | liquid  |
| Process Temperature<br>Remarks   |   | <= 40 °C  |
| Remarks  |   | Low vapour pressure   |
| Frequency and duration o   |   |   |
| Exposure duration  | •   | < 4 h   |
| Other operational condition<br>Outdoor / Indoor                        |   | <b>kers exposure</b><br>Indoor  |
| Technical conditions and<br>Provide a basic standard                   |   | on (1 to 3 air changes per hour) .  |
|  |   | releases, dispersion and exposure<br>onal hygiene is implemented.   |
|  |   | nal protection, hygiene and health evaluation<br>ia contamination on hands., General measures (eye irritants), Use  |
|  |   | rker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ners at non-dedicated facilities, maintenance products, Leather care product |
|  |   |   |
| Product characteristics<br>Concentration of the Sub<br>Mixture/Article | ostance in  | Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of  |   | liquid  |
| Process Temperature<br>Remarks   |   | <= 40 °C<br>Low vapour pressure   |
|  |   |   |
| Frequency and duration o<br>Exposure duration                          |   | < 15 min  |
| Other operational condition<br>Outdoor / Indoor                        |   | <b>kers exposure</b><br>Indoor  |
| Technical conditions and   | measures  |   |
| PRCO90063327   |   |   |
| Version : 7.00 / GB(EN)<br>C<br>T                                      | Craftiful Ltd, Unit 38, E<br>Γel: 01733 963029 En | Benedict Square, Werrington, Peterborough, PE4 6GD<br>nail: hello@craftiful.co.uk<br>Page 27 of 82  |
|  |   | · 490 2. 0. 02  |

Revision Date 07.06.2016

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

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 3.2.5 Contributing scenario controlling worker exposure for: PROC2 Use in closed, continuous process with occasional controlled exposure

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article                      | Covers percentage substance in the product up to 1 %.   |
|--|---|
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | : <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| Homano   |   |
| Frequency and duration of use<br>Exposure duration   | : < 15 min  |
|  |   |
| Other operational conditions affecting   | •   |
| Outdoor / Indoor   | : Indoor  |
| Remarks  | : Use in closed process   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ven                  | tilation (1 to 3 air changes per hour) .  |
|  |   |
| Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing. |   |
|  |   |
|  | rsonal protection, hygiene and health evaluation<br>so via contamination on hands., General measures (eye irritants)                                |
|  |   |
|  | worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ntainers at non-dedicated facilities, Gloves, Respiratory protection |
| discharging) nonir to vessels/ large col   | mainers at non-dedicated racinties, bloves, respiratory protection  |
|  |   |
| Product characteristics  |   |
| Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | : <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| Homano   |   |
| Frequency and duration of use  |   |
| Exposure duration  | : < 15 min  |
| •  |   |
| Other operational conditions affecting<br>Outdoor / Indoor   | workers exposure<br>: Indoor  |
| Technical conditions and measures  | tilation (1 to 2 circle men hour)   |

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

PRCO90063327

Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 28 of 82

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

#### 3.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

# 4. ES4 : Use in formulation, end-products

| Main User Groups | : | SU 3   | Industrial uses: Uses of substances as such or in preparations at industrial sites  |
|------------------|---|--------|---|
| Process category | : | PROC8b | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities      |
|                  |   | PROC2  | Use in closed, continuous process with occasional controlled exposure   |
|                  |   | PROC15 | Use as laboratory reagent   |
|                  |   | PROC1  | Use in closed process, no likelihood of exposure  |
|                  |   | PROC3  | Use in closed batch process (synthesis or formulation)  |
|                  |   | PROC5  | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) |
|                  |   | PROC8a | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities  |
|                  |   | PROC9  | Transfer of substance or preparation into small containers (dedicated filling line, including weighing)                     |
|                  |   | PROC14 | Production of preparations or articles by tabletting, compression, extrusion, pelletisation                                 |

# 4.2. Conditions of use affecting exposure

4.2.1 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, 5-25 %

| Concentration of the Substance in Mixture/Article       Covers the percentage of the substance in the product up to 25 %.         Mixture/Article       Physical Form (at time of use)       : liquid         Process Temperature       : <= 40 °C         Remarks       : Low vapour pressure         Frequency and duration of use       Exposure duration         Exposure duration       : < 1 h         Other operational conditions affecting workers exposure         Outdoor / Indoor       : Indoor         Remarks       : Semi-closed system, With occasional controlled exposure.         Technical conditions and measures       Provide a basic standard of general ventilation (1 to 3 air changes per hour) .         Organisational measures to prevent /limit releases, dispersion and exposure       Assumes a good basic standard of occupational hygiene is implemented.         Avoid splashing.       Conditions and measures related to personal protection, hygiene and health evaluation         Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection. | Product characteristics   |  |
|--|---|--|
| Physical Form (at time of use)       :       liquid         Process Temperature       :       <= 40 °C   | Concentration of the Substance in   | Covers the percentage of the substance in the product up to 25 %.            |
| Process Temperature       :       <= 40 °C   |   | : liquid   |
| Frequency and duration of use         Exposure duration       : < 1 h  | Process Temperature   |  |
| Exposure duration       : < 1 h  | Remarks   | : Low vapour pressure  |
| Exposure duration       : < 1 h  | Frequency and duration of use   |  |
| Outdoor / Indoor       : Indoor         Remarks       : Semi-closed system, With occasional controlled exposure.         Technical conditions and measures       Provide a basic standard of general ventilation (1 to 3 air changes per hour).         Organisational measures to prevent /limit releases, dispersion and exposure         Assumes a good basic standard of occupational hygiene is implemented.         Avoid splashing.         Conditions and measures related to personal protection, hygiene and health evaluation         Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.   |   | : <1h  |
| Outdoor / Indoor       : Indoor         Remarks       : Semi-closed system, With occasional controlled exposure.         Technical conditions and measures       Provide a basic standard of general ventilation (1 to 3 air changes per hour).         Organisational measures to prevent /limit releases, dispersion and exposure         Assumes a good basic standard of occupational hygiene is implemented.         Avoid splashing.         Conditions and measures related to personal protection, hygiene and health evaluation         Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.   | Other operational conditions affecting  | workers exposure   |
| <ul> <li>Technical conditions and measures         Provide a basic standard of general ventilation (1 to 3 air changes per hour).     </li> <li>Organisational measures to prevent /limit releases, dispersion and exposure         Assumes a good basic standard of occupational hygiene is implemented.         Avoid splashing.     </li> <li>Conditions and measures related to personal protection, hygiene and health evaluation         Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.     </li> </ul>   |   | •  |
| <ul> <li>Provide a basic standard of general ventilation (1 to 3 air changes per hour).</li> <li>Organisational measures to prevent /limit releases, dispersion and exposure         Assumes a good basic standard of occupational hygiene is implemented.         Avoid splashing.</li> <li>Conditions and measures related to personal protection, hygiene and health evaluation         Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use         suitable eye protection.</li> </ul>  | Remarks   | : Semi-closed system, With occasional controlled exposure.                   |
| Avoid splashing.<br><b>Conditions and measures related to personal protection, hygiene and health evaluation</b><br>Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use<br>suitable eye protection.   | Provide a basic standard of general ver<br>Organisational measures to prevent /li | mit releases, dispersion and exposure  |
| Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.  |   |  |
| suitable eye protection.   |   |  |
|  |   | Iso via contamination on hands., General measures (eye irritants), Use       |
| 4 Z Z CONTRIDUTING SCENARIO CONTROLLING WORKER EXPOSITE FOR: PROC.2 USE IN CLOSED, CONTINUOUS process with occasional  | 4.2.2 Contributing scenario controlling   | worker exposure for: PROC2 Use in closed, continuous process with occasional |

|   | Revision Date 07.06.2016  |
|---|---|
| Product characteristics   |   |
| Concentration of the Substance in<br>Mixture/Article  | Covers the percentage of the substance in the product up to 25 %.           |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | $= 40 \degree C$  |
| Remarks   | : Low vapour pressure   |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecting<br>Outdoor / Indoor  | workers exposure<br>: Indoor  |
| Remarks   | : Use in closed process   |
| Technical conditions and measures<br>Provide a basic standard of general ver                        | ntilation (1 to 3 air changes per hour) .                                   |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing. | mit releases, dispersion and exposure<br>upational hygiene is implemented.  |
| · · · · · · · · · · · · · · · · · · ·   |   |
|   | ersonal protection, hygiene and health evaluation                           |
| Avoid direct eye contact with product, a  | lso via contamination on hands., General measures (eye irritants)           |
|   |   |
| 4.2.3 Contributing scenario controlling   | worker exposure for: PROC15 Use as laboratory reagent, 5-25 %               |
|   |   |
| Product characteristics   |   |
| Concentration of the Substance in   | Covers the percentage of the substance in the product up to 25 %.           |
| Mixture/Article   |   |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature<br>Remarks  | : <= 40 °C<br>: Low vapour pressure   |
|   |   |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecting<br>Outdoor / Indoor  | workers exposure<br>: Indoor  |
| Technical conditions and measures   |   |
| Provide a basic standard of general ver   | ntilation (1 to 3 air changes per hour) .                                   |
|   |   |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing. | mit releases, dispersion and exposure<br>upational hygiene is implemented.  |
|   |   |
|   | ersonal protection, hygiene and health evaluation                           |
| Avoid direct eye contact with product, a  | lso via contamination on hands., General measures (eye irritants)           |
|   |   |
| 4.2.4 Contributing scenario controlling   | worker exposure for: PROC1 Use in closed process, no likelihood of exposure |
|   |   |
| Product characteristics   | Covers the percentage of the substance in the result of we to 05 %          |
| Concentration of the Substance in<br>Mixture/Article  | Covers the percentage of the substance in the product up to 25 %.           |
| Physical Form (at time of use)  | : liquid  |
|   | · ·· <b>·· ·· ··</b>  |

Revision Date 07.06.2016

| Process Temperature<br>Remarks                               | : <= 40 °C<br>: Low vapour pressure   |
|--|---|
|  |   |
| Frequency and duration of us<br>Exposure duration            | se<br>: <1h   |
| Other operational conditions                                 | -   |
| Outdoor / Indoor<br>Remarks                                  | : Indoor<br>: Use in closed process   |
| Remains  |   |
| Technical conditions and me<br>Provide a basic standard of g | <b>asures</b><br>eneral ventilation (1 to 3 air changes per hour) .   |
|  | prevent /limit releases, dispersion and exposure<br>ard of occupational hygiene is implemented.   |
|  | ated to personal protection, hygiene and health evaluation<br>product, also via contamination on hands., General measures (eye irritants) |
| 4.2.5 Contributing scenario c formulation)                   | ontrolling worker exposure for: PROC3 Use in closed batch process (synthesis or   |
|  |   |
| Product characteristics<br>Concentration of the Substar      | nce in Covers the percentage of the substance in the product up to 25 %.  |
| Mixture/Article  |   |
| Physical Form (at time of use                                |   |
| Process Temperature<br>Remarks                               | : <= 40 °C<br>: Low vapour pressure   |
| Romanio  |   |
| Frequency and duration of us<br>Exposure duration            | se<br>: <4 h  |
| Other operational conditions                                 | affecting workers exposure  |
| Outdoor / Indoor   | : Indoor  |
| Remarks  | : Use in closed process   |
| Technical conditions and me<br>Provide a basic standard of g | asures<br>eneral ventilation (1 to 3 air changes per hour) .  |
|  | prevent /limit releases, dispersion and exposure<br>ard of occupational hygiene is implemented.   |
|  | ated to personal protection, hygiene and health evaluation<br>product, also via contamination on hands., General measures (eye irritants) |
|  | ontrolling worker exposure for: PROC5 Mixing or blending in batch processes for formulation multistage and/ or significant contact)       |
|  |   |
| Product characteristics<br>Concentration of the Substan      | nce in Covers the percentage of the substance in the product up to 25 %.  |
| Mixture/Article  |   |
| Physical Form (at time of use<br>Process Temperature         | e) : liquid<br>: <= 40 °C   |
| PRC090063327   |   |
| Version : 7.00 / GB (EN)                                     |   |
|  | iful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>01733 963029 Email: hello@craftiful.co.uk                        |
|  | Page 32 of 82   |

| Revision Date 07.00 | 6.2016 |
|---------------------|--------|
|---------------------|--------|

|  | Revision Bate 07.00.20   |
|--|--|
| Remarks  | : Low vapour pressure  |
| Frequency and duration of use<br>Exposure duration   | : <4 h   |
| Other operational conditions affectin<br>Outdoor / Indoor  | ng workers exposure<br>: Indoor  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general v  | ventilation (1 to 3 air changes per hour).   |
| Organisational measures to prevent<br>Assumes a good basic standard of or<br>Avoid splashing.  | /limit releases, dispersion and exposure ccupational hygiene is implemented.   |
|  | <b>personal protection, hygiene and health evaluation</b><br>, also via contamination on hands., General measures (eye irritants), Use |
|  | ng worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>containers at non-dedicated facilities               |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks        | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure                               |
| Frequency and duration of use<br>Exposure duration   | : <4 h   |
| Other operational conditions affectin<br>Outdoor / Indoor  | ng workers exposure<br>: Indoor  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general v  | ventilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent<br>Assumes a good basic standard of or<br>Avoid splashing.  | /limit releases, dispersion and exposure ccupational hygiene is implemented.   |
|  | <b>personal protection, hygiene and health evaluation</b><br>, also via contamination on hands., General measures (eye irritants), Use |
| 4.2.8 Contributing scenario controlli controlled exposure  | ng worker exposure for: PROC2 Use in closed, continuous process with occasional  |
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure                               |
|  |  |

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 33 of 82

| Frequency and duration of use<br>Exposure duration   | : < 15 min   |
|--|--|
| Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks  | workers exposure<br>: Indoor<br>: Use in closed process  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ver  | ntilation (1 to 3 air changes per hour) .  |
| <b>Organisational measures to prevent /li</b><br>Assumes a good basic standard of occu<br>Avoid splashing.   |  |
|  | ersonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants) |
| 4.2.9 Contributing scenario controlling  | worker exposure for: PROC15 Use as laboratory reagent, <1%   |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks        | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure               |
| Frequency and duration of use<br>Exposure duration   | : < 15 min   |
| Other operational conditions affecting<br>Outdoor / Indoor   | workers exposure<br>: Indoor   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ver  | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing.  |  |
|  | ersonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants) |
| 4.2.10 Contributing scenario controllin<br>opportunity for exposure arises, < 1%   | g worker exposure for: PROC4 Use in batch and other process (synthesis) where  |
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure               |
| Frequency and duration of use<br>Exposure duration   | : <1h  |
|  | t 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>29 Email: hello@craftiful.co.uk<br>Page 34 of 82           |

| Outdoor / Indoor  | ons affecting workers exposure   |
|---|--|
|   | : Indoor   |
| Remarks   | : Semi-closed system, With occasional controlled exposure.   |
| echnical conditions and<br>Provide a basic standard of  | l measures<br>of general ventilation (1 to 3 air changes per hour) .   |
|   | to prevent /limit releases, dispersion and exposure<br>andard of occupational hygiene is implemented.  |
| Avoid splashing.  |  |
|   | s related to personal protection, hygiene and health evaluation<br>with product, also via contamination on hands., General measures (eye irritants), Use   |
|   | ario controlling worker exposure for: PROC9 Transfer of substance or preparation into small ing line, including weighing)  |
| Product obstactoristics   |  |
| Product characteristics<br>Concentration of the Subs<br>Mixture/Article   | bstance in Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of   |  |
| Process Temperature   | : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of<br>Exposure duration  | of use<br>: <1 h   |
| Other operational conditic  | ons affecting workers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Remarks   | : Semi-closed system, With occasional controlled exposure.   |
| <b>Fechnical conditions and</b><br>Provide a basic standard o   | l measures<br>of general ventilation (1 to 3 air changes per hour) .   |
|   | to prevent /limit releases, dispersion and exposure  |
|   | andard of occupational hygiene is implemented.   |
|   |  |
| Assumes a good basic sta<br>Avoid splashing.  | s related to personal protection, hygiene and health evaluation  |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures   | s related to personal protection, hygiene and health evaluation<br>with product, also via contamination on hands., General measures (eye irritants)  |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar   | with product, also via contamination on hands., General measures (eye irritants)<br>ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin   |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar   | with product, also via contamination on hands., General measures (eye irritants)<br>ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin   |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs  | with product, also via contamination on hands., General measures (eye irritants)<br>ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin<br>pelletisation  |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article   | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %.   |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs  | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %.   |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of  | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %. f use) : liquid   |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of   | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %. f use) i liquid i <= 40 °C i Low vapour pressure of use             |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration  | with product, also via contamination on hands., General measures (eye irritants)<br>ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation<br>bstance in Covers percentage substance in the product up to 1 %.<br>if use)<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>PRC090063327                              | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %. f use) i liquid i <= 40 °C i Low vapour pressure of use             |
| Assumes a good basic sta<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>4.2.12 Contributing scenar<br>compression, extrusion, p<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>PRCO90063327<br>/ersion : 7.00 / GB (EN ) | with product, also via contamination on hands., General measures (eye irritants) ario controlling worker exposure for: PROC14 Production of preparations or articles by tablettin pelletisation bstance in Covers percentage substance in the product up to 1 %. f use) i liquid i <= 40 °C i Low vapour pressure of use             |

| Other operational condition<br>Outdoor / Indoor               | ons affecting workers exposure<br>: Indoor   |  |
|---|--|--|
| <b>Technical conditions and</b><br>Provide a basic standard o | <b>measures</b><br>of general ventilation (1 to 3 air changes per hour) .  |  |
|   | to prevent /limit releases, dispersion and exposure<br>andard of occupational hygiene is implemented.  |  |
| Avoid direct eye contact w                                    | related to personal protection, hygiene and health evaluation<br>vith product, also via contamination on hands., General measures (eye irritants)<br>n, Wear respiratory protection. |  |

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 4.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Page 36 of 82

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are

managed to at least equivalent levels.

Revision Date 07.06.2016

# 5. ES5 : Industrial use, Use in formulation, Cosmetic products

| . Scenario description |          |   |
|------------------------|----------|---|
| Main User Groups       | : SU 3   | Industrial uses: Uses of substances as such or in preparations at industrial sites  |
| Process category       | : PROC8b | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities      |
|                        | PROC2    | Use in closed, continuous process with occasional controlled exposure   |
|                        | PROC15   | Use as laboratory reagent   |
|                        | PROC1    | Use in closed process, no likelihood of exposure  |
|                        | PROC3    | Use in closed batch process (synthesis or formulation)  |
|                        | PROC5    | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) |
|                        | PROC8a   | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities  |
|                        | PROC9    | Transfer of substance or preparation into small containers (dedicated filling line, including weighing)                     |

#### 5.2. Conditions of use affecting exposure

5.2.1 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), 100 %

#### **Product characteristics**

| Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks  | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |  |  |
|---|--|--|--|
| Frequency and duration of use   |  |  |  |
| Exposure duration   | : <1h  |  |  |
| Other operational conditions affecting we   | orkers exposure  |  |  |
| Outdoor / Indoor  | : Indoor   |  |  |
| Remarks   | : Semi-closed system, With occasional controlled exposure.   |  |  |
| Provide a basic standard of general ventila<br>Organisational measures to prevent /limi<br>Assumes a good basic standard of occupa<br>Avoid splashing.  | t releases, dispersion and exposure  |  |  |
| <b>Conditions and measures related to personal protection, hygiene and health evaluation</b><br>Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection. |  |  |  |
| 5.2.2 Contributing scenario controlling w controlled exposure, 100 %  | orker exposure for: PROC2 Use in closed, continuous process with occa  |  |  |
| <b>Product characteristics</b><br>Concentration of the Substance in   | Covers the percentage of the substance in the product up to 100 %  |  |  |

casional

PRCO90063327 Version: 7.00 / GB (EN)

Revision Date 07.06.2016

|   | Revision Date 07.00.  |
|---|---|
|   |   |
| Mixture/Article<br>Physical Form (at time of use)   | (unless stated differently).<br>: liquid  |
| Process Temperature   | = 40  °C  |
| Remarks   | : Low vapour pressure   |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecting  | na workers exposure   |
| Outdoor / Indoor  | : Indoor  |
| Remarks   | : Use in closed process   |
| Fechnical conditions and measures<br>Provide a basic standard of general v                    | ventilation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent<br>Assumes a good basic standard of or<br>Avoid splashing. | /limit releases, dispersion and exposure ccupational hygiene is implemented.  |
|   | <b>personal protection, hygiene and health evaluation</b><br>, also via contamination on hands., General measures (eye irritants) |
| 5.2.3 Contributing scenario controlli   | ng worker exposure for: PROC15 Use as laboratory reagent, 100 %   |
|   |   |
| Product characteristics   |   |
| Concentration of the Substance in   | Covers the percentage of the substance in the product up to 100 $\%$  |
| Mixture/Article   | (unless stated differently).  |
| Physical Form (at time of use)  | : liquid<br>: <= 40 °C  |
| Process Temperature<br>Remarks  | : <= 40 C<br>: Low vapour pressure  |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affectir   | na workers exposure   |
| Outdoor / Indoor  | : Indoor  |
| Fechnical conditions and measures   |   |
|   | /entilation (1 to 3 air changes per hour) .   |
|   |   |
| Organisational measures to prevent  | /limit releases, dispersion and exposure  |
| Assumes a good basic standard of or   |   |
| Avoid splashing.  |   |
|   |   |
|   | personal protection, hygiene and health evaluation<br>, also via contamination on hands., General measures (eve irritants)        |
| , , , , , , , , , , , , , , , , , , ,   |   |
| 5.2.4 Contributing sconario controlli   | ng worker exposure for: PROC1 Use in closed process, no likelihood of exposure  |
| 5.2.4 Contributing Scenario Controlli   | ing worker exposure for. PROCI use in closed process, no interinood of exposure   |
| Duo duot okonootou!= (!= -  |   |
| Product characteristics<br>Concentration of the Substance in                                  | Covers the percentage of the substance in the product up to 100 %   |
| Mixture/Article   | Covers the percentage of the substance in the product up to 100 % (unless stated differently).                                    |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | : <= 40 °C  |
| Remarks   | · Low vapour pressure   |

PRCO90063327 Version: 7.00 / GB (EN)

Remarks

> Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 38 of 82

: Low vapour pressure

| Frequency and duration of use<br>Exposure duration  | : <1h  |
|---|--|
| Other operational conditions affecting  | workers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Remarks   | : Use in closed process  |
| Technical conditions and measures<br>Provide a basic standard of general ver                        | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing. | <b>mit releases, dispersion and exposure</b><br>upational hygiene is implemented.                                      |
|   | ersonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants) |
| 5.2.5 Contributing scenario controlling formulation)  | worker exposure for: PROC3 Use in closed batch process (synthesis or   |
|   |  |
| Product characteristics   |  |
| Concentration of the Substance in   | Covers the percentage of the substance in the product up to 100 %  |
| Mixture/Article   | (unless stated differently).   |
| Physical Form (at time of use)  | : liquid   |
| Process Temperature   | : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use<br>Exposure duration  | : <4 h   |
| Other operational conditions affecting  | workers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Remarks   | : Use in closed process  |
| Technical conditions and measures<br>Provide a basic standard of general ver                        | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing. | <b>mit releases, dispersion and exposure</b><br>upational hygiene is implemented.                                      |
|   | ersonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants) |
| 5.2.6 Contributing scenario controlling of preparations and articles (multistag                     | worker exposure for: PROC5 Mixing or blending in batch processes for formulation e and/ or significant contact)        |
| Product characteristics   |  |
| Concentration of the Substance in   | Covers the percentage of the substance in the product up to 100 %  |
| Mixture/Article   | (unless stated differently).   |
| Physical Form (at time of use)  | : liquid   |
| Process Temperature   | $= 40 ^{\circ}\text{C}$  |
| Remarks   | : Low vapour pressure  |
| PRC090063327<br>Version : 7.00 / GB (EN )   | t 38, Benedict Square, Werrington, Peterborough, PE4 6GD   |

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 39 of 82

| Frequency and duration of use<br>Exposure duration   | : <4 h   |
|--|--|
| Other operational conditions affecting w<br>Outdoor / Indoor   | vorkers exposure<br>: Indoor   |
| Technical conditions and measures<br>Provide a basic standard of general venti   | lation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing.  |  |
|  | <b>sonal protection, hygiene and health evaluation</b><br>o via contamination on hands., General measures (eye irritants), Use |
| 5.2.7 Contributing scenario controlling v<br>discharging) from/ to vessels/ large con  | worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>tainers at non-dedicated facilities             |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks        | Covers the percentage of the substance in the product up to 25 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure           |
| Frequency and duration of use<br>Exposure duration   | : <4 h   |
| Other operational conditions affecting w<br>Outdoor / Indoor   | vorkers exposure<br>: Indoor   |
| Technical conditions and measures<br>Provide a basic standard of general venti   | lation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing.  |  |
|  | <b>sonal protection, hygiene and health evaluation</b><br>o via contamination on hands., General measures (eye irritants), Use |
| 5.2.8 Contributing scenario controlling v<br>controlled exposure   | worker exposure for: PROC2 Use in closed, continuous process with occasional   |
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 25 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure           |
| Frequency and duration of use<br>PRC090063327<br>Version : 7.00 / GB (EN )   | 88 Benedict Square, Werrington, Peterborough, PE4.6GD  |

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 40 of 82

|  | Revision Date 07.06.2016   |
|--|--|
| Exposure duration  | : < 15 min   |
| Other operational conditions a   | Iffecting workers exposure   |
| Outdoor / Indoor   | : Indoor   |
| Remarks  | : Use in closed process  |
| echnical conditions and measure<br>Provide a basic standard of generation of generation of generation of generation of generation of the standard of the standard of the standard of generation of the standard of generation of the standard of the s | sures<br>neral ventilation (1 to 3 air changes per hour) .   |
|  | revent /limit releases, dispersion and exposure<br>rd of occupational hygiene is implemented.  |
|  | ted to personal protection, hygiene and health evaluation<br>roduct, also via contamination on hands., General measures (eye irritants)  |
| 5.2.9 Contributing scenario co   | ntrolling worker exposure for: PROC15 Use as laboratory reagent, 5-25 %  |
|  |  |
| Product characteristics  |  |
| Concentration of the Substand  | ce in Covers the percentage of the substance in the product up to 25 %.  |
| Mixture/Article  |  |
| Physical Form (at time of use)<br>Process Temperature  | ) : liquid<br>: <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : < 15 min   |
| Other operational conditions a   | affecting workers exposure   |
| Outdoor / Indoor   | : Indoor   |
| <b>Fechnical conditions and meas</b><br>Provide a basic standard of ge   | <b>sures</b><br>neral ventilation (1 to 3 air changes per hour) .  |
|  | revent /limit releases, dispersion and exposure  |
| Assumes a good basic standar<br>Avoid splashing.   | rd of occupational hygiene is implemented.   |
|  |  |
|  | ted to personal protection, hygiene and health evaluation  |
|  | <b>ted to personal protection, hygiene and health evaluation</b><br>roduct, also via contamination on hands., General measures (eye irritants)   |
| Avoid direct eye contact with p  |  |
| Avoid direct eye contact with pr<br>5.2.10 Contributing scenario co<br>discharging) from/ to vessels/  | roduct, also via contamination on hands., General measures (eye irritants)<br>ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/   |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing from/ to vessels/<br>Product characteristics<br>Concentration of the Substance   | roduct, also via contamination on hands., General measures (eye irritants) ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 % ce in Covers the percentage of the substance in the product up to 25 %   |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario condischarging) from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article   | roduct, also via contamination on hands., General measures (eye irritants)         ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %         ce in       Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).   |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)  | roduct, also via contamination on hands., General measures (eye irritants)         ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %         ce in       Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).         )       : liquid                                  |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario condischarging) from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article   | roduct, also via contamination on hands., General measures (eye irritants)         ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %         ce in       Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).   |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing scenario contributing from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use   | roduct, also via contamination on hands., General measures (eye irritants)         ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/large containers at dedicated facilities, 5-25 %         ce in       Covers the percentage of the substance in the product up to 25 % (unless stated differently).         )       :         :       iquid         :       <= 40 °C |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration  | roduct, also via contamination on hands., General measures (eye irritants)<br>ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %<br>ce in Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).<br>) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h            |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing scenario contracteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions a   | roduct, also via contamination on hands., General measures (eye irritants)<br>ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %<br>ce in Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).<br>) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h            |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario contributing scenario contributing scenario contributing scenario contributing from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions a<br>PRC090063327  | roduct, also via contamination on hands., General measures (eye irritants)<br>ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %<br>ce in Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).<br>) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h            |
| Avoid direct eye contact with pro-<br>5.2.10 Contributing scenario condischarging) from/ to vessels/<br>Product characteristics<br>Concentration of the Substance<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions and<br>PRCO90063327<br>Version : 7.00 / GB (EN )  | roduct, also via contamination on hands., General measures (eye irritants)<br>ontrolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>large containers at dedicated facilities, 5-25 %<br>ce in Covers the percentage of the substance in the product up to 25 %<br>(unless stated differently).<br>) : liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h            |

| Revision Date | 07.06.2016 |
|---------------|------------|
|               | 01.00.2010 |

| Outdoor / Indoor   | : Indoor  |
|--|---|
| Remarks  | : Semi-closed system, With occasional controlled exposure.  |
|  |   |
| Fechnical conditions and measure<br>Provide a basic standard of genera   | es<br>Il ventilation (1 to 3 air changes per hour) .  |
| 5  |   |
| Organisational measures to preve   | nt /limit releases, dispersion and exposure   |
|  | occupational hygiene is implemented.  |
| Avoid splashing.   |   |
| Conditions and messures related  | to nerveral protection, buriene and bealth avaluation   |
|  | to personal protection, hygiene and health evaluation<br>ict, also via contamination on hands., General measures (eye irritants), Use                     |
| suitable eye protection.   |   |
|  |   |
|  |   |
|  | rolling worker exposure for: PROC9 Transfer of substance or preparation into small  |
| containers (dedicated filling line, i  | ncluding weigning)  |
|  |   |
| Product characteristics  |   |
| Concentration of the Substance in  | Covers the percentage of the substance in the product up to 25 %.   |
| Mixture/Article  | . Iteria  |
| Physical Form (at time of use)<br>Process Temperature  | : liquid<br>: <= 40 °C  |
| Remarks  | : Low vapour pressure   |
|  |   |
| Frequency and duration of use  | · ~ 1 h   |
| Exposure duration  | : <1h   |
| Other operational conditions affec   | ting workers exposure   |
| Outdoor / Indoor   | : Indoor  |
| Remarks  | : Semi-closed system, With occasional controlled exposure.  |
|  |   |
| Technical conditions and measure   | łS  |
|  | es<br>Il ventilation (1 to 3 air changes per hour) .  |
|  |   |
| Provide a basic standard of genera   | I ventilation (1 to 3 air changes per hour) .   |
| Provide a basic standard of genera Organisational measures to preve  | Il ventilation (1 to 3 air changes per hour) .<br>nt /limit releases, dispersion and exposure   |
| Provide a basic standard of genera<br>Organisational measures to preve<br>Assumes a good basic standard of   | I ventilation (1 to 3 air changes per hour) .   |
| Provide a basic standard of genera Organisational measures to preve  | Il ventilation (1 to 3 air changes per hour) .<br>nt /limit releases, dispersion and exposure   |
| Provide a basic standard of genera<br>Organisational measures to preve<br>Assumes a good basic standard of<br>Avoid splashing.                                     | al ventilation (1 to 3 air changes per hour) .<br><b>nt /limit releases, dispersion and exposure</b><br><sup>i</sup> occupational hygiene is implemented. |
| Provide a basic standard of general<br>Organisational measures to preve<br>Assumes a good basic standard of<br>Avoid splashing.<br>Conditions and measures related | Il ventilation (1 to 3 air changes per hour) .<br>nt /limit releases, dispersion and exposure   |

# 5.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC

Exposure Assessment Method : Qualitative approach used to conclude safe use.

PRC090063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 42 of 82

#### 5.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

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

Page 43 of 82

# 6. ES6 : Industrial use, end-products

| Main User Groups | : <b>SU</b>  | <b>3</b> Industrial uses: Uses of substances as such or in preparations at industrial sites  |
|------------------|--------------|--|
| Process category | : <b>P</b> R | OC8b Transfer of substance or preparation (charging/ discharging) from<br>to vessels/ large containers at dedicated facilities     |
|                  | PR           | OC2 Use in closed, continuous process with occasional controlled exposure  |
|                  | PR           | OC8a Transfer of substance or preparation (charging/ discharging) from<br>to vessels/ large containers at non-dedicated facilities |
|                  | PR           | OC4 Use in batch and other process (synthesis) where opportunity for exposure arises   |
|                  | PR           | OC7 Industrial spraying  |
|                  | PR           | OC10 Roller application or brushing  |
|                  | PR           | OC13 Treatment of articles by dipping and pouring  |

6.2. Conditions of use affecting exposure

#### 6.2.1 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, CS110 without local exhaust ventilation

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.   |
|---|---|
| Physical Form (at time of use)  | liquid  |
| Process Temperature :   | <= 40 °C  |
| Remarks :   | Low vapour pressure   |
| Frequency and duration of use   |   |
|   | < 15 min  |
| Other operational conditions affecting wo   | rkers exposure  |
| Outdoor / Indoor :  | Indoor  |
| Remarks :   | Semi-closed system, With occasional controlled exposure.  |
| Provide a basic standard of general ventilat<br>Organisational measures to prevent /limit<br>Assumes a good basic standard of occupat<br>Avoid splashing. | releases, dispersion and exposure   |
| Avoid direct eye contact with product, also v suitable eye protection.  | nal protection, hygiene and health evaluation<br>via contamination on hands., General measures (eye irritants), Use<br>EN374) in combination with 'basic' employee training. (Effectiveness |
| 6.2.2 Contributing scenario controlling wo<br>controlled exposure, <15 min, CS109 with  | rker exposure for: PROC2 Use in closed, continuous process wi<br>local exhaust ventilation  |

# vith occasional

**Product characteristics** Concentration of the Substance in

Covers percentage substance in the product up to 1 %.

PRCO90063327 Version: 7.00 / GB (EN)

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 44 of 82

Revision Date 07.06.2016

| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | ∶ liquid<br>∶ <= 40 °C<br>∶ Low vapour pressure   |
|---|---|
| Frequency and duration of use<br>Exposure duration  | : < 15 min  |
| Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks   | g workers exposure<br>: Indoor<br>: Use in closed process   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ve<br>with local exhaust ventilation (Effective | entilation (1 to 3 air changes per hour) .<br>eness (of a measure): 90 %)   |
| Organisational measures to prevent /<br>Assumes a good basic standard of occ<br>Avoid splashing.                                | limit releases, dispersion and exposure<br>cupational hygiene is implemented.   |
| Avoid direct eye contact with product,  | <b>Dersonal protection, hygiene and health evaluation</b><br>also via contamination on hands., General measures (eye irritants)<br>ed to EN374) in combination with 'basic' employee training. (Effectiveness (of |
| 6.2.3 Contributing scenario controllin controlled exposure, <15 min, CS110  | g worker exposure for: PROC2 Use in closed, continuous process with occasional without local exhaust ventilation  |
|   |   |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of use)<br>Process Temperature<br>Remarks  | : liquid<br>: <= 40 °C<br>: Low vapour pressure   |
| Frequency and duration of use<br>Exposure duration  | : < 15 min  |
| ·   |   |
| Other operational conditions affecting  |   |
| Other operational conditions affecting<br>Outdoor / Indoor<br>Remarks   | g workers exposure<br>: Indoor<br>: Use in closed process   |
| Outdoor / Indoor<br>Remarks<br>Technical conditions and measures  | : Indoor  |
| Outdoor / Indoor<br>Remarks<br><b>Technical conditions and measures</b><br>Provide a basic standard of general ve               | <ul> <li>Indoor</li> <li>Use in closed process</li> <li>entilation (1 to 3 air changes per hour).</li> <li>limit releases, dispersion and exposure</li> </ul>   |

#### 6.2.4 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, OC9 Outdoor Product characteristics Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) liquid : Process Temperature <= 40 °C Remarks : Low vapour pressure Frequency and duration of use Exposure duration : <1h Other operational conditions affecting workers exposure Outdoor / Indoor : Outdoor Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %) 6.2.5 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, OC9 Outdoor **Product characteristics** Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) liquid : <= 40 °C **Process Temperature** Remarks Low vapour pressure : Frequency and duration of use Exposure duration : < 8 h Other operational conditions affecting workers exposure Outdoor / Indoor Outdoor Remarks Semi-closed system, With occasional controlled exposure. Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eve protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of

a measure): 80 %)

### 6.2.6 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, <1 hr, CS110 without local exhaust ventilation Product characteristics Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) : liquid Process Temperature <= 40 °C Remarks : Low vapour pressure Frequency and duration of use Exposure duration : <1h Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor Technical conditions and measures Provide a basic standard of general ventilation (1 to 3 air changes per hour). Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 6.2.7 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, OC9 Outdoor

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article |     | Covers percentage substance in the product up to 1 %. |
|---|-----|---|
| Physical Form (at time of use)  |     | liquid  |
| Process Temperature :   | : • | <= 40 °C  |
| Remarks   | :   | Low vapour pressure                                   |
| Frequency and duration of use   |     |   |
| Exposure duration :   | : • | < 1 h   |
| Other operational conditions affecting wo                                       | rke | ers exposure  |
| Outdoor / Indoor :  | : ( | Outdoor   |

#### **Technical conditions and measures**

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

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

PRC090063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 47 of 82

# 6.2.8 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC9 Outdoor

| Product characteristicsConcentration of the Substance in<br>Mixture/ArticlePhysical Form (at time of use)Process TemperatureRemarks | Covers percentage substance in the product up to 1 %.<br>liquid<br><= 40 °C<br>Low vapour pressure  |
|---|---|
| Frequency and duration of use<br>Exposure duration :  | < 8 h   |
| Other operational conditions affecting wor<br>Outdoor / Indoor  | <b>kers exposure</b><br>Outdoor   |
| Organisational measures to prevent /limit<br>Assumes a good basic standard of occupati<br>Avoid splashing.                          |   |
| Avoid direct eye contact with product, also v suitable eye protection.  | nal protection, hygiene and health evaluation<br>via contamination on hands., General measures (eye irritants), Use<br>EN374) in combination with 'basic' employee training. (Effectiveness (of |
|   | rker exposure for: PROC4 Use in batch and other process (synthesis) where or, CS110 without local exhaust ventilation   |
|   | Covers percentage substance in the product up to 1 %.<br>liquid<br><= 40 °C<br>Low vapour pressure  |
| Frequency and duration of use<br>Exposure duration :  | < 8 h   |
| Other operational conditions affecting wor<br>Outdoor / Indoor :<br>Remarks :   | <b>kers exposure</b><br>Indoor<br>Semi-closed system, With occasional controlled exposure.  |
| Technical conditions and measures<br>Provide a basic standard of general ventilation  | ion (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /limit<br>Assumes a good basic standard of occupati<br>Avoid splashing.                          |   |
|   | nal protection, hygiene and health evaluation<br>via contamination on hands., General measures (eye irritants), Use   |
| PRCO90063327<br>Version : 7.00 / GB (EN )   | Repediet Square Warrington, Reterborough, RE4.6CD   |

6.2.10 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, CS110 without local exhaust ventilation

| Product characteristics   |  |
|---|--|
| Concentration of the Substance in   | Covers percentage substance in the product up to 1 %.  |
| Mixture/Article   | . 11   |
| Physical Form (at time of use)<br>Process Temperature   | : liquid<br>: <= 40 °C   |
| Remarks   | : Low vapour pressure  |
|   |  |
| Frequency and duration of use   |  |
| Exposure duration   | : < 15 min   |
| Other operational conditions affecting  | workers exposure   |
| Outdoor / Indoor  | : Indoor   |
|   |  |
| Technical conditions and measures<br>Provide a basic standard of general ver  | tilation (1 to 3 air changes per bour)   |
| Flovide a basic standard of general ver   | luiation (1 to 5 all changes per hour).  |
|   |  |
| Organisational measures to prevent /li  |  |
| Assumes a good basic standard of occu   | upational hygiene is implemented.  |
| Avoid splashing.  |  |
|   |  |
| Conditions and measures related to pe   | ersonal protection, hygiene and health evaluation  |
| Avoid direct eye contact with product, a  | lso via contamination on hands., General measures (eye irritants), Use   |
| suitable eye protection.  |  |
|   | d to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
| a measure): 80 %)   |  |
|   |  |
|   |  |
|   | a worker exposure for PROC/ industrial spraving Chain maintenance product  |
| 6.2.11 Contributing Scenario Controllin   | g worker exposure for: PROC7 Industrial spraying, Chain maintenance product  |
| 0.2.11 Contributing Scenario Controllin   |  |
|   |  |
| Product characteristics<br>Concentration of the Substance in  |  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)   | Covers percentage substance in the product up to 1 %.  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)   | Covers percentage substance in the product up to 1 %.  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| <ul> <li>Product characteristics</li> <li>Concentration of the Substance in<br/>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> <li>Frequency and duration of use</li> <li>Exposure duration</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure  |
| <ul> <li>Product characteristics</li> <li>Concentration of the Substance in<br/>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> <li>Frequency and duration of use</li> <li>Exposure duration</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure  |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use         <ul> <li>Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures Provide a basic standard of general ver</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure<br>: Indoor<br>tilation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures Provide a basic standard of general ver</li> <li>Organisational measures to prevent /li</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures Provide a basic standard of general ver</li> <li>Organisational measures to prevent /li Assumes a good basic standard of occurs</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures Provide a basic standard of general ver</li> <li>Organisational measures to prevent /li</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures Provide a basic standard of general ver</li> <li>Organisational measures to prevent /li Assumes a good basic standard of occurs</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics <ul> <li>Concentration of the Substance in</li> <li>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Exposure duration</li> </ul> </li> <li>Other operational conditions affecting <ul> <li>Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures <ul> <li>Provide a basic standard of general ver</li> </ul> </li> <li>Organisational measures to prevent /li <ul> <li>Assumes a good basic standard of occur</li> <li>Avoid splashing.</li> </ul> </li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).   |
| <ul> <li>Product characteristics <ul> <li>Concentration of the Substance in</li> <li>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Exposure duration</li> </ul> </li> <li>Other operational conditions affecting <ul> <li>Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures <ul> <li>Provide a basic standard of general ver</li> </ul> </li> <li>Organisational measures to prevent /li <ul> <li>Assumes a good basic standard of occulation</li> <li>Avoid splashing.</li> </ul> </li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented.  |
| <ul> <li>Product characteristics <ul> <li>Concentration of the Substance in</li> <li>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Exposure duration</li> </ul> </li> <li>Other operational conditions affecting <ul> <li>Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures <ul> <li>Provide a basic standard of general ver</li> </ul> </li> <li>Organisational measures to prevent /li <ul> <li>Assumes a good basic standard of occulation</li> <li>Avoid splashing.</li> </ul> </li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation   |
| <ul> <li>Product characteristics <ul> <li>Concentration of the Substance in</li> <li>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Exposure duration</li> </ul> </li> <li>Other operational conditions affecting <ul> <li>Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures <ul> <li>Provide a basic standard of general ver</li> </ul> </li> <li>Organisational measures to prevent /li <ul> <li>Assumes a good basic standard of occulation</li> <li>Avoid splashing.</li> </ul> </li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation   |
| <ul> <li>Product characteristics <ul> <li>Concentration of the Substance in</li> <li>Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Exposure duration</li> </ul> </li> <li>Other operational conditions affecting <ul> <li>Outdoor / Indoor</li> </ul> </li> <li>Technical conditions and measures <ul> <li>Provide a basic standard of general ver</li> </ul> </li> <li>Organisational measures to prevent /li <ul> <li>Assumes a good basic standard of occur <ul> <li>Avoid splashing.</li> </ul> </li> <li>Conditions and measures related to perform the product, and the product of the product of the performance of the performance</li></ul></li></ul> | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented.<br>Prsonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants) |
| <ul> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures</li> <li>Provide a basic standard of general ver</li> <li>Organisational measures to prevent /li Assumes a good basic standard of occur. Avoid splashing.</li> <li>Conditions and measures related to per Avoid direct eye contact with product, a</li> <li>PRC090063327</li> <li>Version : 7.00 / GB (EN)</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 8 h<br>workers exposure<br>: Indoor<br>tillation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation   |

6.2.12 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, OC8 Indoor, CS109 with local exhaust ventilation

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article  | Covers percentage substance in the product up to 1 %.  |
|---|--|
| Physical Form (at time of use)<br>Process Temperature   | : liquid<br>: <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use<br>Exposure duration  | : <1h  |
| Other operational conditions affecting<br>Outdoor / Indoor  | workers exposure<br>: Indoor   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiven   |  |
| Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  |  |
| Avoid direct eye contact with product, al suitable eye protection.  | ersonal protection, hygiene and health evaluation<br>lso via contamination on hands., General measures (eye irritants), Use<br>d to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
|   |  |
|   |  |
|   | g worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS110   |
| 6.2.13 Contributing scenario controllin without local exhaust ventilation   | g worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS110   |
| without local exhaust ventilation   | ng worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS110  |
| without local exhaust ventilation         Product characteristics         Concentration of the Substance in   | ng worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS110<br>Covers percentage substance in the product up to 1 %.   |
| without local exhaust ventilation Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use)  | Covers percentage substance in the product up to 1 %.  |
| without local exhaust ventilation Product characteristics Concentration of the Substance in Mixture/Article   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| without local exhaust ventilation Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks  | Covers percentage substance in the product up to 1 %.  |
| without local exhaust ventilation Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| without local exhaust ventilation Product characteristics Concentration of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks Frequency and duration of use  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min   |
| without local exhaust ventilationProduct characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>RemarksFrequency and duration of use<br>Exposure durationOther operational conditions affecting  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>workers exposure<br>: Indoor   |
| without local exhaust ventilation         Product characteristics         Concentration of the Substance in         Mixture/Article         Physical Form (at time of use)         Process Temperature         Remarks         Frequency and duration of use         Exposure duration         Other operational conditions affecting         Outdoor / Indoor         Technical conditions and measures  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>workers exposure<br>: Indoor<br>htilation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure                                      |
| <ul> <li>without local exhaust ventilation</li> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures             <ul> <li>Provide a basic standard of general ven</li> </ul> </li> <li>Organisational measures to prevent /line         <ul> <li>Assumes a good basic standard of occultation</li> </ul> </li> </ul> | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>workers exposure<br>: Indoor<br>htilation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure                                      |
| <ul> <li>without local exhaust ventilation</li> <li>Product characteristics         <ul> <li>Concentration of the Substance in Mixture/Article</li> <li>Physical Form (at time of use)</li> <li>Process Temperature</li> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Technical conditions and measures             <ul> <li>Provide a basic standard of general ven</li> </ul> </li> <li>Organisational measures to prevent /line         <ul> <li>Assumes a good basic standard of occultation</li> </ul> </li> </ul> | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: < 15 min<br>workers exposure<br>: Indoor<br>ntilation (1 to 3 air changes per hour).<br>mit releases, dispersion and exposure<br>upational hygiene is implemented. |

| 110030003321            |  |
|-------------------------|--|
| Version: 7.00 / GB (EN) |  |
|                         | Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD |
|                         | Tel: 01733 963029 Email: hello@craftiful.co.uk                             |

Page 50 of 82

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

Respirator, APF 10 (Effectiveness (of a measure): 90 %)

# 6.2.14 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, OC8 Indoor, <15 min, CS109 with local exhaust ventilation

| Product characteristics                                   |   |
|---|---|
| Concentration of the Substance in                         | Covers percentage substance in the product up to 1 %.                           |
| Mixture/Article   |   |
| Physical Form (at time of use)                            | : liquid  |
| Process Temperature                                       | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
| Frequency and duration of use                             |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecting                    | workers exposure  |
| Outdoor / Indoor  | : Indoor  |
| Technical conditions and measures                         |   |
| Provide a basic standard of general ven                   | tilation (1 to 3 air changes per hour)  |
| with local exhaust ventilation (Effectiven                |   |
|   |   |
| Ormaniaational magazina to magazint //in                  | nit releases discussion and supressure  |
| Organisational measures to prevent /lir                   |   |
| Assumes a good basic standard of occu<br>Avoid splashing. | palional nyglene is implemented.  |
| Avoid splasning.  |   |
|   |   |
|   | rsonal protection, hygiene and health evaluation                                |
|   | so via contamination on hands., General measures (eye irritants)                |
|   | to EN374) in combination with 'basic' employee training. (Effectiveness (of     |
| a measure): 80 %)   |   |
|   |   |
| 6.2.45 Contributing according controlling                 | g worker exposure for: PROC10 Roller application or brushing, OC8 Indoor, CS110 |
| without local exhaust ventilation                         | g worker exposure for: PROCTO Roller application of brushing, OC6 indoor, CSTTO |
|   |   |
| Product change (origin)                                   |   |
| Product characteristics                                   | Covers memory taken on the taken and wat we to 1.0/                             |
| Concentration of the Substance in<br>Mixture/Article      | Covers percentage substance in the product up to 1 %.                           |
| Physical Form (at time of use)                            | : liquid  |
| Process Temperature                                       | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
|   |   |
| Frequency and duration of use                             |   |
| Exposure duration   | : < 8 h   |
| Other operational conditions affecting                    | workers exposure  |
|   |   |
| Outdoor / Indoor  | : Indoor  |
|   | : Indoor  |
| Technical conditions and measures                         |   |
|   |   |
| Technical conditions and measures                         | tilation (1 to 3 air changes per hour) .  |

Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

PRCO90063327

Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 51 of 82

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

# 6.2.16 Contributing scenario controlling worker exposure for: PROC7 Industrial spraying, general surface cleaning products

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks               | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |  |
|--|--|--|
| Frequency and duration of use  |  |  |
| Exposure duration  | : <8h  |  |
| Other operational conditions affecting v<br>Outdoor / Indoor   | vorkers exposure<br>: Indoor   |  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general vent   | ilation (1 to 3 air changes per hour) .  |  |
| Organisational measures to prevent /limit releases, dispersion and exposure<br>Assumes a good basic standard of occupational hygiene is implemented.<br>Avoid splashing. |  |  |
| Conditions and measures related to per   | sonal protection, hygiene and health evaluation  |  |

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants) Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %) Respirator, APF 10 (Effectiveness (of a measure): 90 %)

discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, CS109 with local exhaust ventilation

# 6.2.17 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/

#### **Product characteristics** Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) : liquid Process Temperature <= 40 °C : Remarks : Low vapour pressure Frequency and duration of use Exposure duration : < 15 min Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor **Technical conditions and measures** Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

#### PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Page 52 of 82

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 6.2.18 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC8 Indoor, CS109 with local exhaust ventilation

#### **Product characteristics**

| Concentration of the Substance in<br>Mixture/Article | Covers percentage substance in the product up to 1 %. |
|--|---|
| Physical Form (at time of use)                       | : liquid  |
| Process Temperature                                  | : <= 40 °C  |
| Remarks  | : Low vapour pressure                                 |
| Frequency and duration of use<br>Exposure duration   | : < 8 h   |

#### Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor

#### Technical conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation, Inhalation exposure (Effectiveness (of a measure): 90 %)

#### Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 6.2.19 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, CS109 with local exhaust ventilation

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article | Covers percentage substance in the product up to 1 %.      |
|--|--|
| Physical Form (at time of use)   | : liquid   |
|  | : <= 40 °C   |
| Remarks  | : Low vapour pressure                                      |
| Frequency and duration of use  |  |
| Exposure duration  | : < 15 min   |
| Other operational conditions affecting wo  | orkers exposure  |
| Outdoor / Indoor   | : Indoor   |
| Remarks  | : Semi-closed system, With occasional controlled exposure. |
| PRC090063327   |  |

Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 53 of 82

|  | Revision Date 07.06.2016   |
|--|--|
| <b>Technical conditions and measures</b><br>Provide a basic standard of general vent<br>with local exhaust ventilation (Effectiven     |  |
| Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.                                   |  |
| Avoid direct eye contact with product, al<br>suitable eye protection.  | rsonal protection, hygiene and health evaluation<br>so via contamination on hands., General measures (eye irritants), Use<br>I to EN374) in combination with 'basic' employee training. (Effectiveness (of |
|  | g worker exposure for: PROC4 Use in batch and other process (synthesis) where ndoor, CS109 with local exhaust ventilation  |
|  |  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article  | Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time of use)<br>Process Temperature  | : liquid<br>: <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| Frequency and duration of use<br>Exposure duration   | : < 8 h  |
| Other operational conditions affecting   | workers exposure   |
| Outdoor / Indoor<br>Remarks  | : Indoor<br>: Semi-closed system, With occasional controlled exposure.   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ventives<br>with local exhaust ventilation (Effectiven | tilation (1 to 3 air changes per hour).  |
| Organisational measures to prevent /lir<br>Assumes a good basic standard of occu<br>Avoid splashing.                                   |  |
|  | rsonal protection, hygiene and health evaluation<br>so via contamination on hands., General measures (eye irritants), Use  |
|  | to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
| 6.2.21 Contributing scenario controlling controlled exposure, < 8h   | g worker exposure for: PROC2 Use in closed, continuous process with occasional   |
| Product characteristics  |  |
| Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time of use)   | : liquid   |
| Process Temperature<br>Remarks   | : <= 40 °C<br>. Low vapour pressure  |

- : <= 40 °C
- : Low vapour pressure

PRCO90063327 Version: 7.00 / GB (EN)

Remarks

| Frequency and duration of use<br>Exposure duration               | : <8h  |
|--|--|
| Other operational conditions affe<br>Outdoor / Indoor<br>Remarks | ecting workers exposure<br>: Indoor<br>: Use in closed process   |
| 5  | i <b>res</b><br>eral ventilation (1 to 3 air changes per hour) .<br>rectiveness (of a measure): 90 %)  |
| -  | vent /limit releases, dispersion and exposure<br>of occupational hygiene is implemented.   |
| Avoid direct eye contact with proc                               | d to personal protection, hygiene and health evaluation<br>duct, also via contamination on hands., General measures (eye irritants)<br>(totot to EN374) in combination with (basic) amployoe training. (Effectiveness (d |

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

#### 6.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 6.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

# 7. ES7 : Professional use, end-products

| Main User Groups | : SU22   | Professional uses: Public domain (administration, education, entertainment, services, craftsmen)                           |
|------------------|----------|--|
| Process category | : PROC8a | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities |
|                  | PROC11   | Non industrial spraving  |
|                  | PROC10   | Roller application or brushing   |
|                  | PROC8b   | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities     |
|                  | PROC2    | Use in closed, continuous process with occasional controlled exposure  |
|                  | PROC13   | Treatment of articles by dipping and pouring   |
|                  | PROC4    | Use in batch and other process (synthesis) where opportunity for exposure arises   |

7.2. Conditions of use affecting exposure

7.2.1 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Gloves

#### **Product characteristics**

- . .

| Concentration of the Substance in   | Covers percentage substance in the product up to 1 %.   |
|---|---|
| Mixture/Article   |   |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecting w  | orkers exposure   |
| Outdoor / Indoor  | : Indoor  |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general ventil                | ation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing. | · • •   |
|   | sonal protection, hygiene and health evaluation<br>o via contamination on hands., General measures (eye irritants), Use |

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

7.2.2 Contributing scenario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities, PROC10 Roller application or brushing, PROC13 Treatment of articles by dipping and pouring, <1 hr, OC8 Indoor, CS110 without local exhaust ventilation, Gloves

#### **Product characteristics**

PRC090063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

| Revision Date | 07.06.2016 |
|---------------|------------|
|               | 01.00.2010 |

| Concentration of the Substance in  | Covers percentage substance in the product up to 1 %.  |
|--|--|
| Mixture/Article  |  |
| Physical Form (at time of use)   | : liquid   |
| Process Temperature<br>Remarks   | : <= 40 °C<br>: Low vapour pressure  |
| Remarks  | . Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : <1h  |
| ther operational conditions affecting  | i workers exposure   |
| Outdoor / Indoor   | : Indoor   |
| echnical conditions and measures   |  |
| Provide a basic standard of general ve   | ntilation (1 to 3 air changes per hour) .  |
| )rganisational measures to prevent /l  | imit releases, dispersion and exposure   |
| Assumes a good basic standard of occ   |  |
| Avoid splashing.   |  |
|  |  |
|  | ersonal protection, hygiene and health evaluation  |
|  | also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.   |  |
|  | ed to EN374) in combination with 'basic' employee training. (Effectiveness (of                                 |
| a measure): 80 %)  |  |
|  |  |
| lischarging) from/ to vessels/ large co<br>exhaust ventilation, Without gloves | ontainers at non-dedicated facilities, <15 min, OC8 Indoor, CS110 without local                                |
| Product characteristics  |  |
| Concentration of the Substance in<br>Mixture/Article                           | Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time of use)   | : liquid   |
| Process Temperature  | : <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : < 15 min   |
|  |  |
| ther operational conditions affecting  | •  |
| Outdoor / Indoor   | : Indoor   |
| echnical conditions and measures   |  |
| Provide a basic standard of general ve   | ntilation (1 to 3 air changes per hour)  |
| rovido a sucio standara el general ve  |  |
| versionational management to provent //  | imit releases, dispersion and experies   |
|  | imit releases, dispersion and exposure   |
| Assumes a good basic standard of occ<br>Avoid splashing.                       | upational hygiene is implemented.  |
|  |  |
|  | encode and a strand baselike and |
|  | ersonal protection, hygiene and health evaluation  |
|  | les vie contemination en hande. Company mar  |
| auitable ave protection  | also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.   | also via contamination on hands., General measures (eye irritants), Use  |

| 7.2.4 Contributing scenario controlling<br>gloves  | y worker exposure for: PROC11 Non industrial spraying, <1 hr, OC8 Indoor, Without  |
|--|--|
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure   |
| Frequency and duration of use<br>Exposure duration   | : <1h  |
| Other operational conditions affecting<br>Outdoor / Indoor   | workers exposure<br>: Indoor   |
| Technical conditions and measures<br>Provide a basic standard of general ver   | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing.  | mit releases, dispersion and exposure<br>upational hygiene is implemented.   |
|  | ersonal protection, hygiene and health evaluation<br>Iso via contamination on hands., General measures (eye irritants)   |
| 7.2.5 Contributing scenario controlling<br>Gloves  | worker exposure for: PROC10 Roller application or brushing, < 8h, OC8 Indoor,  |
| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature                   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C  |
| Remarks<br>Frequency and duration of use<br>Exposure duration  | : Low vapour pressure<br>: < 8 h   |
| Other operational conditions affecting<br>Outdoor / Indoor   |  |
| Technical conditions and measures<br>Provide a basic standard of general ver   | ntilation (1 to 3 air changes per hour) .  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing.  | mit releases, dispersion and exposure<br>upational hygiene is implemented.   |
| Avoid direct eye contact with product, a suitable eye protection.  | ersonal protection, hygiene and health evaluation<br>lso via contamination on hands., General measures (eye irritants), Use<br>d to EN374) in combination with 'basic' employee training. (Effectiveness (of |
|  | t 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>29 Email: hello@craftiful.co.uk<br>Page 58 of 82   |

# 7.2.6 Contributing scenario controlling worker exposure for: PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use) | Covers percentage substance in the product up to 1 %.   |
|---|---|
| Process Temperature<br>Remarks  | <ul> <li>: &lt;= 40 °C</li> <li>: Low vapour pressure</li> </ul>  |
| Frequency and duration of use<br>Exposure duration  | : < 15 min  |
| Other operational conditions affecting v  |   |
| Outdoor / Indoor<br>Remarks   | : Indoor<br>: Semi-closed system, With occasional controlled exposure.  |
| Technical conditions and measures   |   |
| Provide a basic standard of general vent  | ilation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.              | pational hygiene is implemented.  |
|   | rsonal protection, hygiene and health evaluation<br>so via contamination on hands., General measures (eye irritants), Use |
|   | to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| 7.2.7 Contributing scenario controlling controlled exposure   | worker exposure for: PROC2 Use in closed, continuous process with occasional  |
|   |   |
| Product characteristics   |   |
| Concentration of the Substance in<br>Mixture/Article  | Covers percentage substance in the product up to 1 %.   |
| Physical Form (at time of use)  | : liquid  |

| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | ∶ liquid<br>∶ <= 40 °C<br>∶ Low vapour pressure |
|---|---|
| Frequency and duration of use<br>Exposure duration                                  | : < 15 min                                      |
| Other operational conditions affect   | ting workers exposure                           |
| Outdoor / Indoor  | : Indoor  |
| Remarks   | : Use in closed process                         |
| Technical conditions and measure  | S   |

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

# Organisational measures to prevent /limit releases, dispersion and exposure

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd,

Revision Date 07.06.2016

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

# 7.2.8 Contributing scenario controlling worker exposure for: PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact), < 8h, OC8 Indoor, Without gloves

| Product characteristics   |   |
|---|---|
| Concentration of the Substance in   | Covers percentage substance in the product up to 1 %.   |
| Mixture/Article   | . 15  |
| Physical Form (at time of use)<br>Process Temperature                           | : liquid<br>: <= 40 °C  |
| Remarks   | : Low vapour pressure   |
|   | · _ · · · · · · · · · · · · · · · · · ·   |
| Frequency and duration of use   |   |
| Exposure duration   | : <8h   |
| Other operational conditions affecti<br>Outdoor / Indoor                        | ng workers exposure<br>: Indoor   |
| <b>Technical conditions and measures</b><br>Provide a basic standard of general | ventilation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent<br>Assumes a good basic standard of o        | : /limit releases, dispersion and exposure<br>ccupational hygiene is implemented.   |
| Avoid splashing.  |   |
|   | personal protection, hygiene and health evaluation<br>t, also via contamination on hands., General measures (eye irritants), Use  |
| 7.2.9 Contributing scenario controll  | ing worker exposure for: PROC11 Non industrial spraying, <15 min, OC8 Indoor,   |
| CS110 without local exhaust ventila   |   |
|   |   |
| Product characteristics   |   |
| Concentration of the Substance in   | Covers percentage substance in the product up to 1 %.   |
| Mixture/Article   |   |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature<br>Remarks  | : <= 40 °C<br>: Low vapour pressure   |
| Remarks   | . Low vapour pressure   |
| Frequency and duration of use   |   |
| Exposure duration   | : < 15 min  |
| Other operational conditions affecti  | ng workers exposure   |
| Outdoor / Indoor  | : Indoor  |
| Toobnical conditions and massures   |   |
| Technical conditions and measures<br>Provide a basic standard of general        | ventilation (1 to 3 air changes per hour) .   |
|   | t <b>/limit releases, dispersion and exposure</b><br>ccupational hygiene is implemented.  |
| Avoid splashing.  |   |
| Avoid direct eye contact with product   | personal protection, hygiene and health evaluation<br>t, also via contamination on hands., General measures (eye irritants)<br>sted to EN374) in combination with 'basic' employee training. (Effectiveness (of |
| PRCO90063327  |   |
| Version : 7.00 / GB (EN)  | Init 38 Repedict Square Werrington Peterborough PE4.6CD   |
|   | Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD<br>33029 Email: hello@craftiful.co.uk<br>Page 60 of 82  |
|   |   |

a measure): 80 %)

# 7.2.10 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, Kitchen cleaner

| Product characteristics   |  |
|---|--|
| Concentration of the Su   | ubstance in Covers percentage substance in the product up to 1 %.  |
| Mixture/Article   | ibstance in Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time  | of use) : liquid   |
| Process Temperature   | ′ : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| -   |  |
| Frequency and duration  | or use : <4 h  |
| Exposure duration   | . <411   |
| Other operational condit<br>Outdoor / Indoor  | tions affecting workers exposure<br>: Indoor   |
| Technical conditions an   |  |
|   | d of general ventilation (1 to 3 air changes per hour).  |
|   |  |
|   |  |
|   | s to prevent /limit releases, dispersion and exposure  |
|   | standard of occupational hygiene is implemented.   |
| Avoid splashing.  |  |
|   |  |
| Conditions and measure  | es related to personal protection, hygiene and health evaluation   |
| Avoid direct eye contact  | with product, also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.  |  |
|   |  |
|   |  |
|   | nario controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/  |
| ventilation, Without glo  | ssels/ large containers at non-dedicated facilities, <1 hr, OC8 Indoor, CS110 without local exhaust  |
|   |  |
|   |  |
| Product characteristics   |  |
| Concentration of the Su   | ubstance in Covers percentage substance in the product up to 1 %.  |
| Mischume / Autiele  |  |
| Mixture/Article   |  |
| Physical Form (at time  |  |
| Physical Form (at time<br>Process Temperature   | <= 40 °C   |
| Physical Form (at time  |  |
| Physical Form (at time<br>Process Temperature<br>Remarks  | <pre>: &lt;= 40 °C : Low vapour pressure</pre>   |
| Physical Form (at time<br>Process Temperature   | <pre>: &lt;= 40 °C : Low vapour pressure</pre>   |
| Physical Form (at time<br>Process Temperature<br>Remarks<br>Frequency and duration<br>Exposure duration   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> </ul> of use <ul> <li>i &lt; 1 h</li> </ul>   |
| Physical Form (at time<br>Process Temperature<br>Remarks<br>Frequency and duration<br>Exposure duration<br>Other operational condition  | <pre></pre>  |
| Physical Form (at time<br>Process Temperature<br>Remarks<br>Frequency and duration<br>Exposure duration   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> </ul> of use <ul> <li>i &lt; 1 h</li> </ul>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> </ul>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an</li> </ul>  | <pre> i &lt;= 40 °C i Low vapour pressure  of use i &lt; 1 h  tions affecting workers exposure i Indoor  d measures </pre>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an</li> </ul>  | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> </ul>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure</li>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic standard</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure</li>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic standard</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure</li>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> </ul>   | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure</li>   |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact</li> </ul>  | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure <ul> <li>standard of occupational hygiene is implemented.</li> </ul></li>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure</li> </ul>   | <pre></pre>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact<br/>suitable eye protection.</li> <li>PRC090063327</li> </ul> | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure standard of occupational hygiene is implemented.</li>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact<br/>suitable eye protection.</li> </ul>                       | <ul> <li>i &lt;= 40 °C</li> <li>i Low vapour pressure</li> <li>of use <ul> <li>i &lt; 1 h</li> </ul> </li> <li>tions affecting workers exposure <ul> <li>i Indoor</li> </ul> </li> <li>d measures</li> <li>d of general ventilation (1 to 3 air changes per hour).</li> </ul> <li>s to prevent /limit releases, dispersion and exposure <ul> <li>standard of occupational hygiene is implemented.</li> </ul> </li> <li>es related to personal protection, hygiene and health evaluation <ul> <li>with product, also via contamination on hands., General measures (eye irritants), Use</li> </ul></li> |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact<br/>suitable eye protection.</li> <li>PRC090063327</li> </ul> | <pre>: &lt;= 40 °C<br/>: Low vapour pressure<br/>of use<br/>: &lt;1 h<br/>tions affecting workers exposure<br/>: Indoor<br/>d measures<br/>d of general ventilation (1 to 3 air changes per hour).<br/>s to prevent /limit releases, dispersion and exposure<br/>standard of occupational hygiene is implemented.<br/>es related to personal protection, hygiene and health evaluation<br/>with product, also via contamination on hands., General measures (eye irritants), Use<br/>Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD</pre>                                  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact<br/>suitable eye protection.</li> <li>PRC090063327</li> </ul> | <pre></pre>  |
| <ul> <li>Physical Form (at time<br/>Process Temperature<br/>Remarks</li> <li>Frequency and duration<br/>Exposure duration</li> <li>Other operational condit<br/>Outdoor / Indoor</li> <li>Technical conditions an<br/>Provide a basic standard</li> <li>Organisational measure<br/>Assumes a good basic s<br/>Avoid splashing.</li> <li>Conditions and measure<br/>Avoid direct eye contact<br/>suitable eye protection.</li> <li>PRC090063327</li> </ul> | <pre>: &lt;= 40 °C<br/>: Low vapour pressure<br/>of use<br/>: &lt;1 h<br/>tions affecting workers exposure<br/>: Indoor<br/>d measures<br/>d of general ventilation (1 to 3 air changes per hour).<br/>s to prevent /limit releases, dispersion and exposure<br/>standard of occupational hygiene is implemented.<br/>es related to personal protection, hygiene and health evaluation<br/>with product, also via contamination on hands., General measures (eye irritants), Use<br/>Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD</pre>                                  |

# 7.2.12 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <1 hr, OC8 Indoor, Gloves

| Product characteristics  |   |
|--|---|
| Concentration of the Substance in  | Covers percentage substance in the product up to 1 %.   |
| Mixture/Article  | . limital   |
| Physical Form (at time of use)<br>Process Temperature  | : liquid<br>: <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| Komanio  |   |
| Frequency and duration of use  |   |
| Exposure duration  | : <1h   |
| Other exerctional conditions offecting   | n werkere expective   |
| Other operational conditions affecting<br>Outdoor / Indoor   | : Indoor  |
|  |   |
| Technical conditions and measures  |   |
| Provide a basic standard of general ve   | ntilation (1 to 3 air changes per hour) .   |
|  |   |
| Organisational measures to prevent /   | imit releases, dispersion and exposure  |
| Assumes a good basic standard of occ   |   |
| Avoid splashing.   |   |
| 1 0  |   |
|  |   |
| Conditions and measures related to p   | ersonal protection, hygiene and health evaluation   |
| Avoid direct eye contact with product, a   | also via contamination on hands., General measures (eye irritants)  |
|  | ed to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
| a measure): 80 %)  |   |
|  |   |
|  |   |
| 7242 Contributing according controlli  | ng warker evenestics for DDOC9e Transfer of substance or proportion (sharring)  |
|  | ng worker exposure for: PROC8a Transfer of substance or preparation (charging/  |
|  | ng worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ontainers at non-dedicated facilities, OC9 Outdoor  |
|  |   |
| discharging) from/ to vessels/ large co  |   |
| discharging) from/ to vessels/ large co  |   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article   | Covers percentage substance in the product up to 1 %.   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)   | Covers percentage substance in the product up to 1 %.   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)   | Covers percentage substance in the product up to 1 %.   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C   |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>gworkers exposure<br>: Outdoor  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Organisational measures to prevent //  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Organisational measures to prevent //<br>Assumes a good basic standard of occ  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Organisational measures to prevent //  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure  |
| discharging) from/ to vessels/ large co<br>Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Organisational measures to prevent //<br>Assumes a good basic standard of occ  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure  |
| discharging) from/ to vessels/ large convention of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks Frequency and duration of use Exposure duration Other operational conditions affecting Outdoor / Indoor Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>timit releases, dispersion and exposure<br>cupational hygiene is implemented.  |
| discharging) from/ to vessels/ large contract characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Organisational measures to prevent //<br>Assumes a good basic standard of occ<br>Avoid splashing.<br>Conditions and measures related to p   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.  |
| <ul> <li>discharging) from/ to vessels/ large complexity of the substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>timit releases, dispersion and exposure<br>cupational hygiene is implemented.  |
| <ul> <li>discharging) from/ to vessels/ large complexity of the substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a suitable eye protection.</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>gworkers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use |
| <ul> <li>discharging) from/ to vessels/ large complexity of the substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a suitable eye protection.</li> </ul>  | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>g workers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.  |
| <ul> <li>discharging) from/ to vessels/ large complexity of the substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a suitable eye protection. Wear chemically resistant gloves (tester operational gloves (tester operational gloves (tester operational gloves)</li> </ul>   | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>gworkers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use |
| <ul> <li>discharging) from/ to vessels/ large conservation of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a suitable eye protection. Wear chemically resistant gloves (tester operational gloves (tester operational gloves (tester operational gloves)</li> </ul> | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>gworkers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use |
| <ul> <li>discharging) from/ to vessels/ large conservation of the Substance in Mixture/Article Physical Form (at time of use) Process Temperature Remarks</li> <li>Frequency and duration of use Exposure duration</li> <li>Other operational conditions affecting Outdoor / Indoor</li> <li>Organisational measures to prevent // Assumes a good basic standard of occ Avoid splashing.</li> <li>Conditions and measures related to p Avoid direct eye contact with product, a suitable eye protection. Wear chemically resistant gloves (tester operational gloves (tester operational gloves (tester operational gloves)</li> </ul> | Covers percentage substance in the product up to 1 %.<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure<br>: <1 h<br>gworkers exposure<br>: Outdoor<br>limit releases, dispersion and exposure<br>cupational hygiene is implemented.<br>ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use |

| 7.2.14 Contributing scenario controlling opportunity for exposure arises           | g worker exposure for: PROC4 Use in batch and other process (synthesis) where |
|--|---|
| <u> </u>   |   |
| Product characteristics  |   |
| Concentration of the Substance in<br>Mixture/Article                               | Covers percentage substance in the product up to 1 %.                         |
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | : <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| Frequency and duration of use  |   |
| Exposure duration  | : <8h   |
| Other operational conditions affecting   |   |
| Outdoor / Indoor   | : Outdoor   |
| Remarks  | : Semi-closed system, With occasional controlled exposure.                    |
| Organisational measures to prevent /lin  |   |
| Assumes a good basic standard of occu  | ipational hygiene is implemented.   |
| Avoid splashing.   |   |
| Conditions and measures related to pe  | ersonal protection, hygiene and health evaluation                             |
|  | so via contamination on hands., General measures (eye irritants), Use         |
| suitable eye protection.   |   |
|  | d to EN374) in combination with 'basic' employee training. (Effectiveness (of |
| a measure): 80 %)  | ,                                       |
|  |   |
|  |   |
| 7.2.15 Contributing scenario controlling   | g worker exposure for: PROC11 Non industrial spraying, Gloves                 |
|  |   |
| Product characteristics  |   |
| Concentration of the Substance in<br>Mixture/Article                               | Covers percentage substance in the product up to 1 %.                         |
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | : <= 40 °C  |
| Remarks  | : Low vapour pressure   |
| Frequency and duration of use  |   |
| Exposure duration  | : <1h   |
| Other operational conditions affecting   | workers exposure  |
| Outdoor / Indoor   | : Outdoor   |
| Organisational measures to prevent /lin  | mit releases, dispersion and exposure   |
| Assumes a good basic standard of occu  | ipational hygiene is implemented.   |
| Avoid splashing.   |   |
|  |   |
|  |   |
|  | ersonal protection, hygiene and health evaluation                             |
| Avoid direct eye contact with product, al  | lso via contamination on hands., General measures (eye irritants)             |
| Avoid direct eye contact with product, al Wear chemically resistant gloves (tested |   |
| Avoid direct eye contact with product, al  | lso via contamination on hands., General measures (eye irritants)             |
| Avoid direct eye contact with product, al Wear chemically resistant gloves (tested | lso via contamination on hands., General measures (eye irritants)             |

# 7.2.16 Contributing scenario controlling worker exposure for: PROC10 Roller application or brushing, OC9 Outdoor

# **Product characteristics**

PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 63 of 82

| Revision Date 07.06 |
|---------------------|
|---------------------|

| Concentration of the Substance in<br>Mixture/Article  | Covers percentage substance in the product up to 1 %.  |
|---|--|
| Physical Form (at time of use)  | : liquid   |
| Process Temperature   | $= 40 ^{\circ}\text{C}$  |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use   |  |
| Exposure duration   | : <8h  |
| Other operational conditions affecting  | g workers exposure   |
| Outdoor / Indoor  | : Outdoor  |
|   | <b>personal protection, hygiene and health evaluation</b><br>also via contamination on hands., General measures (eye irritants), Use   |
|   | ed to EN374) in combination with 'basic' employee training (Effectiveness (of  |
|   | ed to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| Wear chemically resistant gloves (test<br>a measure): 80 %)<br>7.2.17 Contributing scenario controlli | ed to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>ng worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ontainers at non-dedicated facilities, OC9 Outdoor |

| Concentration of the Substance in<br>Mixture/Article  | Covers percentage substance in the product up to 1 %. |
|---|---|
| Physical Form (at time of use)<br>Process Temperature<br>Remarks                                      | : liquid<br>: <= 40 °C<br>: Low vapour pressure       |
| Frequency and duration of use<br>Exposure duration  | : < 15 min  |
| Other operational conditions affecting w<br>Outdoor / Indoor  | rorkers exposure<br>: Outdoor                         |
| Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing. | · · · ·   |
| Conditions and measures related to per-   | and protection byging and backh cyclustion            |

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %)

### 7.2.18 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying

#### **Product characteristics**

| Concentration of the Substance in | Covers percentage substance in the product up to 1 %. |
|-----------------------------------|---|
| Mixture/Article                   |   |
| Physical Form (at time of use)    | : liquid  |
| Process Temperature               | : <= 40 °C  |
| Remarks                           | : Low vapour pressure                                 |

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 64 of 82

|   | Revision Date 07.06.2016   |
|---|--|
| Frequency and duration of use<br>Exposure duration  | : <8h  |
| Other operational conditions affecting<br>Outdoor / Indoor  | workers exposure<br>: Outdoor  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occu<br>Avoid splashing.                       | imit releases, dispersion and exposure<br>upational hygiene is implemented.  |
| Avoid direct eye contact with product, a  | ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)<br>ed to EN374) in combination with 'basic' employee training. (Effectiveness (of<br>a measure): 90 %) |
|   | ng worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ontainers at non-dedicated facilities, <1 hr, OC8 Indoor, CS109 with local exhaust   |
| Product characteristics<br>Concentration of the Substance in  | Covers percentage substance in the product up to 1 %.  |
| Mixture/Article   | Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time of use)  | : liquid<br>: <= 40 °C   |
| Process Temperature<br>Remarks  | : <= 40 °C<br>: Low vapour pressure  |
| Fraguency and duration of use   |  |
| Frequency and duration of use<br>Exposure duration  | : <1h  |
| Other operational conditions affecting  | workers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Technical conditions and measures<br>Provide a basic standard of general ver<br>with local exhaust ventilation (Effective |  |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occ<br>Avoid splashing.                        | imit releases, dispersion and exposure<br>upational hygiene is implemented.  |
| Conditions and measures related to pe   | ersonal protection, hygiene and health evaluation  |
| Avoid direct eye contact with product, a  | also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.<br>Wear chemically resistant gloves (teste<br>a measure): 80 %)                                  | ed to EN374) in combination with 'basic' employee training. (Effectiveness (of   |
| 7.2.20 Contributing scenario controllin<br>opportunity for exposure arises  | ng worker exposure for: PROC4 Use in batch and other process (synthesis) where   |
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article                                    | Covers percentage substance in the product up to 1 %.  |
| Physical Form (at time of use)<br>Process Temperature<br>Remarks  | : liquid<br>: <= 40 °C<br>: Low vapour pressure  |
|   | ··· • • • • • • • • • • • • • • • • • •  |

PRCO90063327 Version : 7.00 / GB ( EN )

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 65 of 82

| Frequency and duration of use  |  |
|--|--|
| Exposure duration  | : <4 h   |
| Other operational conditions affecting   |  |
| Outdoor / Indoor   | : Indoor   |
| Remarks  | : Semi-closed system, With occasional controlled exposure.   |
| echnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver  |  |
| Drganisational measures to prevent /lin<br>Assumes a good basic standard of occu   | mit releases, dispersion and exposure  |
| Avoid splashing.   |  |
|  | ersonal protection, hygiene and health evaluation  |
|  | lso via contamination on hands., General measures (eye irritants), Use   |
| suitable eye protection.   |  |
| Wear chemically resistant gloves (tester<br>a measure): 80 %)  | d to EN374) in combination with 'basic' employee training. (Effectiveness (of  |
| / 2 21 Contributing scenario controllin  | g worker exposure for: PROC8a Transfer of substance or preparation (charging/  |
|  | ntainers at non-dedicated facilities, <15 min, OC8 Indoor, CS109 with local exhaus   |
| ventilation  |  |
| rentilation  |  |
|  |  |
|  |  |
| Product characteristics  |  |
| Concentration of the Substance in  |  |
| -  | Covers percentage substance in the product up to 1 %.  |
| Mixture/Article  |  |
| Mixture/Article<br>Physical Form (at time of use)  | : liquid   |
| Mixture/Article  |  |
| Mixture/Article<br>Physical Form (at time of use)  | : liquid   |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks  | : liquid<br>: <= 40 °C   |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks  | : liquid<br>: <= 40 °C   |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures   | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Technical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> </ul>  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Technical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin   | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> </ul> mit releases, dispersion and exposure  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Technical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> </ul> mit releases, dispersion and exposure  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> </ul> mit releases, dispersion and exposure  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>apational hygiene is implemented.</li> </ul>                                  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>httlation (1 to 3 air changes per hour) .</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>upational hygiene is implemented.</li> </ul>                                 |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>apational hygiene is implemented.</li> </ul>                                  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>upational hygiene is implemented.</li> </ul>                                  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>httlation (1 to 3 air changes per hour) .</li> <li>hess (of a measure): 80 %)</li> </ul> mit releases, dispersion and exposure upational hygiene is implemented. ersonal protection, hygiene and health evaluation |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Fechnical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.  | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>upational hygiene is implemented.</li> </ul>                                  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Technical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.<br>Conditions and measures related to per<br>Avoid direct eye contact with product, al<br>suitable eye protection.<br>Wear chemically resistant gloves (tested | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>upational hygiene is implemented.</li> </ul>                                  |
| Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks<br>Frequency and duration of use<br>Exposure duration<br>Other operational conditions affecting<br>Outdoor / Indoor<br>Technical conditions and measures<br>Provide a basic standard of general ven<br>with local exhaust ventilation (Effectiver<br>Organisational measures to prevent /lin<br>Assumes a good basic standard of occu<br>Avoid splashing.<br>Conditions and measures related to per<br>Avoid direct eye contact with product, al<br>suitable eye protection.<br>Wear chemically resistant gloves (tested | <ul> <li>liquid</li> <li>&lt;= 40 °C</li> <li>Low vapour pressure</li> <li>&lt; 15 min</li> <li>workers exposure</li> <li>indoor</li> <li>htilation (1 to 3 air changes per hour).</li> <li>hess (of a measure): 80 %)</li> <li>mit releases, dispersion and exposure</li> <li>upational hygiene is implemented.</li> </ul>                                  |

### 7.2.22 Contributing scenario controlling worker exposure for: PROC13 Treatment of articles by dipping and pouring, medical devices Product characteristics Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) : liquid Process Temperature <= 40 °C Remarks : Low vapour pressure Frequency and duration of use Exposure duration : <4h Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor Technical conditions and measures Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation (Effectiveness (of a measure): 80 %) Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection. Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. (Effectiveness (of a measure): 80 %) 7.2.23 Contributing scenario controlling worker exposure for: PROC11 Non industrial spraying, <15 min, OC8 Indoor, CS110 without local exhaust ventilation, Without gloves **Product characteristics** Concentration of the Substance in Covers percentage substance in the product up to 1 %. Mixture/Article Physical Form (at time of use) liquid : Process Temperature <= 40 °C Remarks Low vapour pressure Frequency and duration of use Exposure duration : < 15 min Other operational conditions affecting workers exposure Outdoor / Indoor : Indoor **Technical conditions and measures** Provide a basic standard of general ventilation (1 to 3 air changes per hour). with local exhaust ventilation Organisational measures to prevent /limit releases, dispersion and exposure Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing. Conditions and measures related to personal protection, hygiene and health evaluation PRCO90063327 Version: 7.00 / GB (EN) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD

Page 67 of 82

Tel: 01733 963029 Email: hello@craftiful.co.uk

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 7.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 7.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Page 68 of 82

# 8. ES8 : Use at industrial site, Use in Cleaning Agents

| : <b>SU 3</b> Industrial uses: Uses of substances as such or in preparations at industrial sites  |
|---|
| : PROC1 Use in closed process, no likelihood of exposure<br>PROC2 Use in closed, continuous process with occasional controlled<br>exposure                  |
| PROC3Use in closed batch process (synthesis or formulation)PROC4Use in batch and other process (synthesis) where opportunity for<br>exposure arises         |
| PROC7Industrial sprayingPROC8aTransfer of substance or preparation (charging/ discharging) from<br>to vessels/ large containers at non-dedicated facilities |
| <b>PROC8b</b> Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities                        |
| PROC10Roller application or brushingPROC13Treatment of articles by dipping and pouring  |
|   |

#### 8.2. Conditions of use affecting exposure

8.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, PROC3 Use in closed batch process (synthesis or formulation)

| Product characteristics<br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|---|--|
| Frequency and duration of use   |  |
| Exposure duration   | : <8h  |
| Other operational conditions affecting w  | vorkers exposure   |
| Outdoor / Indoor  | : Indoor   |
| Remarks   | : Use in closed process  |
| Provide a basic standard of general venti<br>Organisational measures to prevent /lim<br>Assumes a good basic standard of occup<br>Avoid splashing.  | it releases, dispersion and exposure   |
|   | sonal protection, hygiene and health evaluation<br>o via contamination on hands., General measures (eye irritants)                                   |
| 8.2.2 Contributing scenario controlling worker exposure for: PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises, PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities |  |
|   |  |

#### **Product characteristics**

PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk

Revision Date 07.06.2016

| Mixture/Article  | Covers the percentage of the substance in the product up to 100 % (unless stated differently).                               |
|--|--|
| Physical Form (at time of use)   | : liquid   |
| Process Temperature  | : <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : < 8 h  |
| other operational conditions affecting   | workers exposure   |
| Outdoor / Indoor   | : Indoor   |
| Remarks  | : Semi-closed system, With occasional controlled exposure.   |
| echnical conditions and measures<br>Provide a basic standard of general ver                        | ntilation (1 to 3 air changes per hour) .  |
| Drganisational measures to prevent /li<br>Assumes a good basic standard of occ<br>Avoid splashing. | imit releases, dispersion and exposure<br>upational hygiene is implemented.  |
|  | ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use |
| 3.2.3 Contributing scenario controlling  | g worker exposure for: PROC7 Industrial spraying   |
| Product characteristics  |  |
| Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 %  |
| Mixture/Article  | (unless stated differently).   |
| Physical Form (at time of use)   | : liquid   |
| Process Temperature  | <= 40 °C   |
| Remarks  | : Low vapour pressure  |
| requency and duration of use   |  |
| Exposure duration  | : < 8 h  |
| Other operational conditions affecting   |  |
| Outdoor / Indoor   | : Indoor   |
| Fechnical conditions and measures<br>Provide a basic standard of general ver                       | ntilation (1 to 3 air changes per hour) .  |
|  | imit releases, dispersion and exposure   |
| Assumes a good basic standard of occ   | upational hygiene is implemented.  |
| Avoid splashing.   |  |
| Conditions and measures related to p   | ersonal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)      |
| Conditions and measures related to p   | also via contamination on hands., General measures (eye irritants)   |

PRC090063327 Version : 7.00 / GB ( EN )

Revision Date 07.06.2016

| Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks   | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |  |
|--|--|--|
| Frequency and duration of use<br>Exposure duration   | : < 8 h  |  |
| Other operational conditions affecting wo  | orkers exposure  |  |
| Outdoor / Indoor       : Indoor         Technical conditions and measures         Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |  |
| Organisational measures to prevent /limit  | releases, dispersion and exposure  |  |

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

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

Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants), Use suitable eye protection.

#### 8.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 8.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Page 71 of 82

# 9. ES9 : Use at industrial site, Industrial use, Use as an intermediate

| Main User Groups | : SU 3  | Industrial uses: Uses of substances as such or in preparations at industrial sites   |
|------------------|---------|--|
| Process category | : PROC1 | Use in closed process, no likelihood of exposure   |
|                  | PROC2   | Use in closed, continuous process with occasional controlled exposure  |
|                  | PROC3   | Use in closed batch process (synthesis or formulation)   |
|                  | PROC4   | Use in batch and other process (synthesis) where opportunity for exposure arises   |
|                  | PROC8b  | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at dedicated facilities     |
|                  | PROC15  | Use as laboratory reagent  |
|                  | PROC8a  | Transfer of substance or preparation (charging/ discharging) from to vessels/ large containers at non-dedicated facilities |

9.2. Conditions of use affecting exposure

9.2.1 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, PROC3 Use in closed batch process (synthesis or formulation), General process exposures from enclosed processes, OC9 Outdoor

| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
|--|--|
| Frequency and duration of use<br>Exposure duration   | : <1h  |
| Other operational conditions affecting wo<br>Outdoor / Indoor<br>Remarks   | orkers exposure<br>: Outdoor<br>: Use in closed process  |
| Organisational measures to prevent /limit<br>Assumes a good basic standard of occupa<br>Avoid splashing.   |  |
|  | onal protection, hygiene and health evaluation<br>via contamination on hands., General measures (eye irritants)                                      |
| 9.2.2 Contributing scenario controlling w formulation), OC8 Indoor   | orker exposure for: PROC3 Use in closed batch process (synthesis or  |
| <b>Product characteristics</b><br>Concentration of the Substance in<br>Mixture/Article<br>Physical Form (at time of use)<br>Process Temperature<br>Remarks | Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).<br>: liquid<br>: <= 40 °C<br>: Low vapour pressure |
| Frequency and duration of use  |  |

#### PRCO90063327 Version : 7.00 / GB ( EN ) Craftiful Ltd, Unit :

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 72 of 82

Revision Date 07.06.2016

|   | Revision Date 07.00.20  |
|---|---|
| Exposure duration   | : <1h   |
|   |   |
| Other operational conditions affecting<br>Outdoor / Indoor  | : Indoor  |
| Remarks   | : Use in closed process   |
|   |   |
| Fechnical conditions and measures<br>Provide a basic standard of general ve                       | entilation (1 to 3 air changes per hour).   |
| Organisational measures to prevent /l<br>Assumes a good basic standard of occ<br>Avoid splashing. | limit releases, dispersion and exposure<br>cupational hygiene is implemented.   |
|   | personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants)  |
|   | g worker exposure for: PROC4 Use in batch and other process (synthesis) where<br>C8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/<br>s, <1 hr, OC8 Indoor |
|   |   |
| Product characteristics<br>Concentration of the Substance in                                      | Covers the percentage of the substance in the product up to 100 %   |
| Mixture/Article   | (unless stated differently).  |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
|   |   |
| Frequency and duration of use<br>Exposure duration  | : <1h   |
| Other operational conditions affecting  | a workers exposure  |
| Outdoor / Indoor  | : Indoor  |
| Remarks   | : Semi-closed system, With occasional controlled exposure.  |
| <b>Fechnical conditions and measures</b><br>Provide a basic standard of general ve                | entilation (1 to 3 air changes per hour) .  |
| Drganisational measures to prevent /I<br>Assumes a good basic standard of occ<br>Avoid splashing. | limit releases, dispersion and exposure<br>cupational hygiene is implemented.   |
|   |   |
|   | personal protection, hygiene and health evaluation<br>also via contamination on hands., General measures (eye irritants), Use   |
|   | g worker exposure for: PROC4 Use in batch and other process (synthesis) where<br>C8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/<br>s, OC9 Outdoor       |
|   |   |
|   |   |
| Product characteristics<br>Concentration of the Substance in                                      | Covers the percentage of the substance in the product up to 100 %   |
| Mixture/Article   | (unless stated differently).  |
| Physical Form (at time of use)  | : liquid  |
| Process Temperature   | : <= 40 °C  |
| Remarks   | : Low vapour pressure   |
| PRC090063327  |   |
| /ersion : 7.00 / GB ( EN )  |   |
|   | it 38, Benedict Square, Werrington, Peterborough, PE4 6GD   |
|   | 029 Email: hello@craftiful.co.uk  |

Tel: 01733 963029 Email: hello@craftiful.co.uk Page 73 of 82

| Frequency and duration of use                         |  |
|---|--|
| Exposure duration                                     | : <1h  |
| Other operational conditions aff                      |  |
| Outdoor / Indoor<br>Remarks                           | : Outdoor<br>: Semi-closed system, With occasional controlled exposure.  |
|   |  |
|   | vent /limit releases, dispersion and exposure<br>of occupational hygiene is implemented.   |
|   | <b>d to personal protection, hygiene and health evaluation</b><br>duct, also via contamination on hands., General measures (eye irritants), Use    |
|   | rolling worker exposure for: PROC8b Transfer of substance or preparation (charging/<br>rge containers at dedicated facilities, <15 min, OC8 Indoor |
|   |  |
| Product characteristics                               |  |
| Concentration of the Substance                        |  |
| Mixture/Article<br>Physical Form (at time of use)     | (unless stated differently).<br>: liquid   |
| Process Temperature                                   | : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use                         |  |
| Exposure duration                                     | : < 15 min   |
| Other energianal conditions off                       | acting workers expective   |
| Other operational conditions affe<br>Outdoor / Indoor | : Indoor   |
| Remarks   | : Semi-closed system, With occasional controlled exposure.   |
| Technical conditions and measu                        | Ires   |
| Provide a basic standard of gene                      | eral ventilation (1 to 3 air changes per hour) .   |
|   |  |
|   | vent /limit releases, dispersion and exposure<br>of occupational hygiene is implemented.   |
| Avoid splashing.                                      |  |
|   |  |
| Conditions and measures related                       | d to personal protection, hygiene and health evaluation  |
| Avoid direct eye contact with pro-                    | duct, also via contamination on hands., General measures (eye irritants), Use  |
| suitable eye protection.                              |  |
|   |  |
|   | rolling worker exposure for: PROC8b Transfer of substance or preparation (charging/  |
| discharging) from/ to vessels/ la                     | rge containers at dedicated facilities, <15 min, OC9 Outdoor   |
|   |  |
| Product characteristics                               |  |
| Concentration of the Substance<br>Mixture/Article     |  |
| Physical Form (at time of use)                        | (unless stated differently).<br>: liquid   |
| Process Temperature                                   | : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use                         |  |
| Exposure duration                                     | : < 15 min   |
| PRCO90063327  |  |
| Version : 7.00 / GB (EN)<br>Craftiful L               | _td, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD   |
|   | 33 963029 Email: hello@craftiful.co.uk   |
|   | Page 74 of 82  |
|   |  |

| Outdoor / Indoor<br>Romarka  | : Outdoor   |
|--|---|
| Remarks  | : Semi-closed system, With occasional controlled exposure.  |
|  | to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.   |
| Avoid spidsning.   |   |
|  | related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants), Use   |
| 0.2.7 Contributing scenari   | o controlling worker exposure for: PROC15 Use as laboratory reagent   |
|  |   |
| Product characteristics  | ptones in Covers the percentage of the substance in the resolution to 400.0/  |
| Concentration of the Sub<br>Mixture/Article  | stance in Covers the percentage of the substance in the product up to 100 % (unless stated differently).  |
| Physical Form (at time of  |   |
| Process Temperature  | $= 40 ^{\circ}\text{C}$   |
| Remarks  | : Low vapour pressure   |
| Frequency and duration o   | fuse  |
| Exposure duration  | : <1h   |
| Other operational condition<br>Outdoor / Indoor  | ons affecting workers exposure<br>: Indoor  |
| Provide a basic standard o<br>Organisational measures  | of general ventilation (1 to 3 air changes per hour) .<br>to prevent /limit releases, dispersion and exposure   |
| Provide a basic standard o<br>Organisational measures  | of general ventilation (1 to 3 air changes per hour) .  |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic state<br>Avoid splashing.  | of general ventilation (1 to 3 air changes per hour) .<br>to prevent /limit releases, dispersion and exposure   |
| Provide a basic standard of Organisational measures of Assumes a good basic state Avoid splashing.<br>Conditions and measures Avoid direct eye contact we 9.2.8 Contributing scenario  | of general ventilation (1 to 3 air changes per hour) .<br>to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.<br>related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)<br>o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/  |
| Provide a basic standard of <b>Organisational measures</b> Assumes a good basic state Avoid splashing.<br><b>Conditions and measures</b> Avoid direct eye contact w  | of general ventilation (1 to 3 air changes per hour) .<br>to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.<br>related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)   |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic standard<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics   | of general ventilation (1 to 3 air changes per hour) .<br>to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.<br>related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)<br>o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>sels/ large containers at non-dedicated facilities, OC8 Indoor  |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic standard<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>D.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs  | of general ventilation (1 to 3 air changes per hour).<br>to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.<br>related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)<br>o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>sels/ large containers at non-dedicated facilities, OC8 Indoor   |
| Provide a basic standard of<br><b>Drganisational measures</b><br>Assumes a good basic standard<br>Avoid splashing.<br><b>Conditions and measures</b><br>Avoid direct eye contact w<br><b>D.2.8 Contributing scenarionality</b><br><b>D.2.8 Contributing scenarionality</b><br><b>Product characteristics</b><br>Concentration of the Substantiation of the Subs  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         undard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).  |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic standard<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>D.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       : liquid  |
| Provide a basic standard of<br>Drganisational measures of<br>Assumes a good basic standard<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>D.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subse<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       :         iquid       :         :       <= 40 °C   |
| Provide a basic standard of <b>Organisational measures</b> Assumes a good basic standard a Avoid splashing.<br><b>Conditions and measures</b> Avoid direct eye contact w<br><b>Organisational measures</b> Avoid direct eye contact w<br><b>Organisation of the Subsection of th</b>   | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       : liquid  |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of   | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>iels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).         use)       : liquid<br>: <= 40 °C<br>: Low vapour pressure         f use   |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>D.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       :         :       iquid         :       <= 40 °C   |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>iels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).         use)       : liquid<br>: <= 40 °C<br>: Low vapour pressure         f use   |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>Other operational condition<br>Outdoor / Indoor   | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       :         iliquid       : <= 40 °C   |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Sub-<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>Other operational condition<br>Outdoor / Indoor<br>Technical conditions and<br>Provide a basic standard of<br>PRCO90063327  | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>itels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).         use)       :         iliquid       :         :       -40 °C         :       Low vapour pressure         f use       :         :       1 h         ons affecting workers exposure         :       Indoor |
| Provide a basic standard of<br>Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>Other operational condition<br>Outdoor / Indoor<br>Technical conditions and<br>Provide a basic standard of<br>PRCO90063327<br>Version : 7.00 / GB (EN )   | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure         indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation         ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/sels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 % (unless stated differently).         use)       I liquid         :       <= 40 °C  |
| Organisational measures of<br>Assumes a good basic stat<br>Avoid splashing.<br>Conditions and measures<br>Avoid direct eye contact w<br>9.2.8 Contributing scenarion<br>discharging) from/ to vess<br>Product characteristics<br>Concentration of the Subs<br>Mixture/Article<br>Physical Form (at time of<br>Process Temperature<br>Remarks<br>Frequency and duration of<br>Exposure duration<br>Other operational condition<br>Outdoor / Indoor<br>Technical conditions and Provide a basic standard of<br>Provide a basic standard of Provide a basic standard of<br>Provide a basic standard of Provide a b | of general ventilation (1 to 3 air changes per hour).         to prevent /limit releases, dispersion and exposure<br>indard of occupational hygiene is implemented.         related to personal protection, hygiene and health evaluation<br>ith product, also via contamination on hands., General measures (eye irritants)         o controlling worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>itels/ large containers at non-dedicated facilities, OC8 Indoor         stance in       Covers the percentage of the substance in the product up to 100 %<br>(unless stated differently).         use)       :         iliquid       :         :       -40 °C         :       Low vapour pressure         f use       :         :       1 h         ons affecting workers exposure         :       Indoor |

|  | Revision Date 07.00.20  |
|--|---|
|  |   |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occ<br>Avoid splashing. | i <b>mit releases, dispersion and exposure</b><br>upational hygiene is implemented.   |
| , word optachning.   |   |
|  | ersonal protection, hygiene and health evaluation<br>Ilso via contamination on hands., General measures (eye irritants), Use                                    |
|  | g worker exposure for: PROC8a Transfer of substance or preparation (charging/<br>ontainers at non-dedicated facilities, OC9 Outdoor                             |
|  |   |
| Product characteristics  |   |
| Concentration of the Substance in  | Covers the percentage of the substance in the product up to 100 $\%$  |
| Mixture/Article  | (unless stated differently).  |
| Physical Form (at time of use)   | : liquid<br>: <= 40 °C  |
| Process Temperature<br>Remarks   | : Low vapour pressure   |
| Romano   |   |
| Frequency and duration of use  |   |
| Exposure duration  | : <1h   |
| Other operational conditions affecting<br>Outdoor / Indoor   | workers exposure<br>: Outdoor   |
| Organisational measures to prevent /li<br>Assumes a good basic standard of occ<br>Avoid splashing. | i <b>mit releases, dispersion and exposure</b><br>upational hygiene is implemented.   |
|  | ersonal protection, hygiene and health evaluation<br>Ilso via contamination on hands., General measures (eye irritants), Use                                    |
|  | ng worker exposure for: PROC1 Use in closed process, no likelihood of exposure, cess with occasional controlled exposure, Storage, CS56 with sample collection, |
|  |   |
| Product characteristics  |   |
| Concentration of the Substance in<br>Mixture/Article   | Covers the percentage of the substance in the product up to 100 % (unless stated differently).  |
| Physical Form (at time of use)   | : liquid  |
| Process Temperature  | $= 40 ^{\circ}\text{C}$   |
| Remarks  | : Low vapour pressure   |
|  |   |
| Frequency and duration of use<br>Exposure duration   | : < 8 h   |
|  |   |
| Other operational conditions affecting   |   |
| Outdoor / Indoor<br>Remarks  | : Indoor<br>: Use in closed process   |
| Remarks  | . Ose in closed process   |
| <b>Fechnical conditions and measures</b><br>Provide a basic standard of general ver                | ntilation (1 to 3 air changes per hour) .   |
| Organisational measures to prevent /li   | mit releases, dispersion and exposure   |
| PRCO90063327   |   |
| Version : 7.00 / GB ( EN )   | t 38, Benedict Square, Werrington, Peterborough, PE4 6GD  |
|  |   |

Craftiful Ltd, Unit 38, Benedict Square, Werrington, Peterborough, PE4 6GD Tel: 01733 963029 Email: hello@craftiful.co.uk Page 76 of 82

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

**Conditions and measures related to personal protection, hygiene and health evaluation** Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

9.2.11 Contributing scenario controlling worker exposure for: PROC1 Use in closed process, no likelihood of exposure, PROC2 Use in closed, continuous process with occasional controlled exposure, Storage, CS56 with sample collection, OC9 Outdoor

| Product characteristics                               |  |
|---|--|
| Concentration of the Substance in<br>Mixture/Article  | Covers the percentage of the substance in the product up to 100 % (unless stated differently). |
| Physical Form (at time of use)<br>Process Temperature | : lìquid   |
|   | : <= 40 °C   |
| Remarks   | : Low vapour pressure  |
| Frequency and duration of use                         |  |
| Exposure duration                                     | : < 8 h  |
| Other operational conditions affectin                 | g workers exposure   |
| Outdoor / Indoor                                      | : Outdoor  |
| Remarks   | : Use in closed process  |

Assumes a good basic standard of occupational hygiene is implemented. Avoid splashing.

Conditions and measures related to personal protection, hygiene and health evaluation Avoid direct eye contact with product, also via contamination on hands., General measures (eye irritants)

#### 9.3. Exposure estimation and reference to its source

#### **Human Health**

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PROC             | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PROC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 9.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Revision Date 07.06.2016

# 10. ES10 : Consumers end-use of washing and cleaning products (IFRA GES 6)

| 10.1. Scenario description |   |       |  |
|----------------------------|---|-------|--|
| Main User Groups           | : | SU 21 | Consumer uses: Private households (= general public = consumers) |
| Product category           | : | PC35  | Washing and cleaning products (including solvent based products) |

### 10.2. Conditions of use affecting exposure

# 10.2.1 Contributing scenario controlling consumer exposure for: PC35 Washing and cleaning products (including solvent based products),

According to REACH regulation, a chemical safety assessment need not be performed for a substance which is present in a preparation if the concentration of the substance in the preparation is less than the lowest concentration indicated in article 14.2 of REACH regulation

10.3. Exposure estimation and reference to its source

Revision Date 07.06.2016

# 11. ES11 : Consumer end-use of air care products (IFRA GES 7)

| 11.1. Scenario description |       |  |  |
|----------------------------|-------|--|--|
| :                          | SU 21 | Consumer uses: Private households (= general public = consumers) |  |
| :                          | PC3   | Air care products  |  |
|                            | :     |  |  |

# 11.2. Conditions of use affecting exposure

| 11.2.1 Contributin | g scenario controllin | g consumer ex | posure for: PC3 Air | care products aerosol, |
|--------------------|-----------------------|---------------|---------------------|------------------------|
|--------------------|-----------------------|---------------|---------------------|------------------------|

| Product characteristics<br>Physical Form (at time of use)              | : | aerosol                |
|--|---|------------------------|
| Amount<br>Covers concentrations up to<br>Amount per Application        | - | 0.002 %<br>10 g/event  |
| Frequency and duration of use<br>Exposure duration<br>Frequency of use | : | 0.25 h<br>4 events/day |

# Human factors not influenced by risk management Dermal exposure : negligible

#### 11.2.2 Contributing scenario controlling consumer exposure for: PC3 Air care products ,

| Product characteristics<br>Physical Form (at time of use) | : liquid, solid |
|---|-----------------|
| Amount  |                 |
| Covers concentrations up to                               | : 0.05 %        |
| Amount used per event                                     | : 50 g          |
| Frequency and duration of use                             |                 |
| Exposure duration   | : 8h            |
| Frequency of use  | : 1 events/day  |
| Human factors not influenced by ris                       | k management    |

Dermal exposure

: Assumes that potential dermal contact is limited to fingertips.

### 11.3. Exposure estimation and reference to its source

#### Human Health

| Contributing<br>Scenario | Specific conditions                                   | Value type | Level of Exposure | RCR |
|--------------------------|---|------------|-------------------|-----|
| For all PC               | Qualitative approach<br>used to conclude safe<br>use. | All routes |                   |     |

RCR = Risk characterisation ratio

For all PC Exposure Assessment Method : Qualitative approach used to conclude safe use.

#### 11.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Risk management measures are based on qualitative risk characterisation.

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

Revision Date 07.06.2016

# 12. ES12 : Consumers end-use polishes and wax blends (IFRA GES 9)

| Main User Groups | : | SU 21 | Consumer uses: Private households (= general public = |
|------------------|---|-------|---|
| Product category | : | PC31  | consumers)<br>Polishes and wax blends                 |

#### 12.2. Conditions of use affecting exposure

12.1. Scenario description

### 12.2.1 Contributing scenario controlling consumer exposure for: PC31 Polishes and wax blends,

According to REACH regulation, a chemical safety assessment need not be performed for a substance which is present in a preparation if the concentration of the substance in the preparation is less than the lowest concentration indicated in article 14.2 of REACH regulation

12.3. Exposure estimation and reference to its source

Revision Date 07.06.2016

# 13. ES13 : Consumer use, End use of cosmetic products

| Main User Groups    | : \$           | SU 21 Consumer uses: Private households (= general public = consumers)   |
|---------------------|----------------|--|
| Product category    | -              | PC39 Cosmetics, personal care products<br>PC28 Perfumes, fragrances  |
| Further information | e)<br>pe<br>7( | accordance to the Article 14 (5b) of the REACh Regulation (EC) No 1907/2006,<br>sposure estimation and risk characterisation for human health does not need to b<br>erformed for end uses in cosmetic products within the scope of Directive<br>6/768/EEC., Covered by the Cosmetic Regulation (European Regulation (EC)<br>21223/2009). |

13.2. Conditions of use affecting exposure