

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name: ULTRA SHINE Rinse aid for dishwashers
 Model: CPP500DW
 Code: 35602752
 EAN: 8059019071541
 UFI: 3H30-PORY-A00G-S8H8

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

Intended use Rinse aid for dishwashers

1.3. Details of the supplier of the safety data sheet

Registered name Candy Hoover Group S.r.l.
 Via Comolli, 16 - 20861 Brugherio (MB) - Italy
 Telephone number +39 039 20861
 e-mail address of the competent person responsible for the Safety Data Sheet sds@dgsasrl.it

1.4. Emergency telephone number

For urgent inquiries refer to ENGLAND, SCOTLAND (NHS 24) WALES (NHS Direct Wales) - For medical advice contact 111

SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2 H319 Causes serious eye irritation.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

Ingredients: non-ionic surfactants $\geq 5\%$ e $< 15\%$. Perfumes.

2.3. Other hazards

Based on available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification **x = Conc. %** **Classification (EC) 1272/2008 (CLP)**

2-propylheptanol ethoxylated, propoxylated

INDEX - $9,5 \leq x < 9,7$ Eye Irrit. 2 H319

CE: 605-450-7

CAS: 166736-08-9

Reg. REACH: 02-2119630747-33

CITRIC ACID

INDEX: 607-750-00-3 $4,75 \leq x < 4,85$ Eye Irrit. 2 H319, STOT SE 3 H335

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CE: 201-069-1

CAS: 77-92-9

sodium (xylenes and 4-ethylbenzene)sulfonate

INDEX: - 1,67 ≤ x < 1,72 Eye Irrit. 2 H319

CE: 215-090-9

CAS: 1300-72-7

Reg. REACH: 01-2119513350-56

diphenyl ether

INDEX: - 0,00099 ≤ x < 0,00191 Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412

CE: 202-981-2

CAS: 101-84-8

Reg. REACH: 01-2119472545-33

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

If eye irritation persists: Get medical advice / attention.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

- 2-propylheptanol ethoxylated, propoxylated

Suitable materials: carbon steel, high density polyethylene (PEHD), low density polyethylene (PELD), stainless steel 1.4306 (V2A), stainless steel 1.4401 (V4), stainless steel 1.4439, stainless steel 1.4539, stainless steel 1.4541, stainless steel 1.4571, kiln paint RDL 50, enamelled, tin (tin)

Storage temperature: < 70 °C

- sodium (xylenes and 4-ethylbenzene)sulfonate

Temperatures between 0 °C and 40 °C

7.3. Specific end use(s)

Rinse aid for dishwashers.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

- CITRIC ACID

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
AGW	DEU	2		4 (C)		INHAL

- sodium (xylenes and 4-ethylbenzene)sulfonate

Predicted no-effect concentration - PNEC

Normal value in fresh water		0,23		mg/l				
Normal value for water, intermittent release		2,3		mg/l				
Normal value of STP microorganisms		100		mg/l				
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3,8 mg/kg bw/d				
Inhalation				13,3 mg/m ³				53,6 mg/m ³
Skin			0,048 mg/kg bw/d	3,8 mg/kg bw/d			0,096 mg/kg bw/d	7,6 mg/kg bw/d

- diphenyl ether

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
AGW	DEU	7,1	1	7,1	1	INHAL aerosol and vapour
MAK	DEU	7,1	1	7,1	1	fraction and vapours
VLEP	FRA	7	1			
WEL	GBR	7,1	1			
OEL	EU	7	1	14	2	
TLV-ACGIH		1	2			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

- 2-propylheptanol ethoxylated, propoxylated

Suitable materials also for direct and prolonged contact (Recommendations: protection factor 6, corresponding to >480 minutes of permeation time according to EN 374): nitrilcaucci (NBR) - 0,4 mm thickness.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	yellow	
Odour		
Odour threshold	not determined	Reason for missing data: perfumed product not dangerous for inhalation
Melting point / freezing point	not determined	Reason for missing data: not relevant under the usual conditions of use and storage
Initial boiling point	not available	Reason for missing data: not relevant under the usual conditions of use and storage
Boiling range	not determined	Reason for missing data: not relevant under the usual conditions of use and storage
Flammability	not flammable	Remark: water-based blend
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	2,2 -2,4	
Kinematic viscosity	not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	17,34 mmHg	
Density and/or relative density	1,02 - 1,04 g/cm ³	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information regarding physical hazard classes

Information not available

9.2.2. Other safety characteristics

Total solids	4,75 %
VOC (Directive 2010/75/EU)	9,60 % - 98,04 g/litre
VOC (volatile carbon)	0,48 % - 4,90 g/litre

SECTION 10. Stability and reactivity**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However, the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available.

10.6. Hazardous decomposition products

Information not available.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetic, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: Not classified (no significant component)

▪ 2-propylheptanol ethoxylated, propoxylated

LD50 (Oral): > 2000 mg/kg Metodo: OECD 423

▪ CITRIC ACID

LD50 (Oral): 3000 mg/kg Rat

▪ sodium (xylenes and 4-ethylbenzene)sulfonate

LD50 (Dermal): > 2000 mg/kg

LD50 (Oral): > 7200 mg/kg

LC50 (Inhalation vapours): > 6,41 mg/l/4h

▪ diphenyl ether

LD50 (Oral): 2830 mg/kg

▪ 2-propylheptanol ethoxylated, propoxylated

Method: OECD 423

Species: rat

Exposure: oral

Results: LD50:> 2000 - 5000 mg/kg

▪ sodium (xylenes and 4-ethylbenzene)sulfonate

Reference: report of study (1965)

Reliability (Klimisch score): 2

Species: Rat (Sprague-Dawley Male/Female)

Exposure: oral

Results LD50: >= 7200 mg/kg

Method: equivalent or similar to OECD 403

Reliability (Klimisch score): 2

Species: Rat (Alibi, COX-SD Male/Female)

Exposure: inhalation (aerosol)

Results LC50: > 6.41 mg/l/232 min

Method: equivalent or similar to OECD 402

Reliability (Klimisch score): 2

Species: Rabbit

Exposure: dermal

Results LD50: > 2000 mg/kg

- diphenyl ether

Reference: Study report

Reliability (Klimisch Score): 2

Species: rat (female)

Exposition routes: oral

Results DL50: 2830 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

- 2-propylheptanol ethoxylated, propoxylated

Method: OECD 404

Species: rabbit

Results: slightly irritating

- sodium (xylenes and 4-ethylbenzene)sulfonate

Reference: As described in the U.S. Federal Register Vol. 38, No. 187, Section 1500:41, 1973

Reliability (Klimisch score): 2

Species: rabbit (New Zealand White)

Results: not irritating according to the CLP Reg.

- diphenyl ether

Method: FIFRA PRIMARY DERMAL IRRITATION STUDY

Reliability (Klimisch score): 1

Species: white rabbit (New Zealand)

Results: not irritating.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

- 2-propylheptanol ethoxylated, propoxylated

Method: OECD 405

Species: rabbit

Results: irritant Cat. 2

- sodium (xylenes and 4-ethylbenzene)sulfonate

Method: OECD 405

Reliability (Klimisch score): 2

Species: Rabbit (Small White Russian)

Results: irritant Cat. 2

- diphenyl ether

Reference: Study Report (1973)

Reliability (Klimisch Score): 2

Species: rabbit

Results: irritating cat. 2.

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

- sodium (xylenes and 4-ethylbenzene)sulfonate

Method: OECD 406

Reliability (Klimisch score): 1

Species: Guinea pig (Dunkin-Hartley Female)

Results: not sensitizing

- diphenyl ether

Reference: Study Report (1970)

Reliability (Klimisch Score): 2

Species: man (male)

Results: non -sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

- sodium (xylenes and 4-ethylbenzene)sulfonate

Method: Equivalent or similar to EPA OTS 798.5265

Reliability (Klimisch score): 1

In vitro test

Species: S. typhimurium TA 1535, TA 1537, TA 98, TA 100

Results: negative with metabolic activation - negative without metabolic activation

Method: OECD 474

Reliability (Klimisch score): 1

In vivo test

Species: Mouse (BOR:NMRI (SPF) Male/Female)

Exposure: oral

Results: negative

- diphenyl ether

Reference: Study Report (1987)

Reliability (Klimisch Score): 2

In vitro test

Species: Chinese hamster (ovaries)

Results: negative with metabolic activation - negative without metabolic activation

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

- sodium (xylenes and 4-ethylbenzene)sulfonate

Method: equivalent or similar to OECD 453

Reliability (Klimisch score): 2

Species: Mouse (B6C3F1 Male/Female)

Exposure: dermal

Results NOAEL: >= 727 mg/kg body weight/day

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

- sodium (xylenes and 4-ethylbenzene)sulfonate

Method: equivalent or similar to OECD 421

Reliability (Klimisch score): 1

Species: Rat (Sprague-Dawley Male/Female)

Exposure: oral

Results NOAEL (P0): 300 mg/kg body weight/day

Results NOAEL (F1): 1000 mg/kg body weight/day

The substance is not classified for this hazard class.

- diphenyl ether

Method: OECD 414

Reliability (Klimisch score): 1

Species: Rat (Sprague-Dawley)

Exhibition routes: oral

NOAEL results (development): 500 mg/kg body weight/day

LOAEL results (maternal): 50 mg/kg body weight/day

The substance is not classified for this danger class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

- diphenyl ether

Method: OECD 408

Reliability (Klimisch Score): 1 Species: rat (Sprague-male/female Sprague)

Exhibition routes: oral

Results NOEL(male): 301 mg/kg body weight/day

Results NOEL (female): 335 mg/kg body weight/day

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information**12.1. Toxicity**

- 2-propylheptanol ethoxylated, propoxylated

LC50 - for Fish > 10 mg/l/96h OECD 203; ISO 7346; 92/69/CEE, C.1

EC50 - for Crustacea > 10 mg/l/48h OECD - Guideline 202, part 1

EC50 - for Algae / Aquatic Plants > 10 mg/l/72h OECD - Guideline 201

EC10 for Algae / Aquatic Plants > 1 mg/l/72h OECD - Guideline 201

- sodium (xylenes and 4-ethylbenzene)sulfonate

LC50 - for Fish > 1000 mg/l/96h Eq. o sim. EPA OTS 797.1400; Oncorhynchus mykiss

EC50 - for Crustacea > 1000 mg/l/48h EPA OTS 797.1300; Daphnia magna

Chronic NOEC for Algae / Aquatic Plants 31 mg/l EPA OTS 797.1050; Pseudokirchneriella subcapitata

- diphenyl ether

LC50 - for Fish 4,2 mg/l/96h Oncorhynchus mykiss; American Public Health Association. 1975

EC50 - for Crustacea 1,7 mg/l/48h Daphnia magna; American Public-Health -Association. 1975

Chronic NOEC for Fish 3,2 mg/l Oncorhynchus mykiss; American Public Health Association. 1975

Chronic NOEC for Crustacea 1 mg/l Daphnia magna; American Public-Health -Association. 1975

12.2. Persistence and degradability

- CITRIC ACID

Solubility in water > 10000 mg/l Rapidly degradable

- sodium (xylenes and 4-ethylbenzene)sulfonate

Solubility in water 664 g/l Rapidly degradable

- diphenyl ether

18 mg/l 25°C; OECD 105

Rapidly degradable

18 mg/l 25°C; OECD 105 - American Public Health Association: 76% in 20d

12.3. Bioaccumulative potential

- CITRIC ACID

BCF 3,2

- sodium (xylenes and 4-ethylbenzene)sulfonate

Partition coefficient: n-octanol/water -3,12 Log Kow

- diphenyl ether

Partition coefficient: n-octanol/water 4,21 Log Kow 25 °C

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

Not applicable.

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14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Seveso Category - Directive 2012/18/EU: none.Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product: point 3

Contained substance: point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

SECTION 16. Other information

This Safety Data Sheet was developed based on the information contained in the SDS (Rev.8 of 07/09/2020) of the supplier of the mixture

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%

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- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
 14. Regulation (EU) 2018/669 (XI Atp. CLP)
 15. Regulation (EU) 2019/521 (XII Atp. CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

-- First Edition