



Safety Data Sheet

Revision 27/06/2022
PO385

EUROCLEAN 120

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Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name **EUROCLEAN 120**
UFI : **6S91-C0DV-700U-VK9T**

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

Identified Uses	Industrial	Professional	Consumer
Recommended use	-	✓	-

Uses Advised Against

All other uses

1.3. Details of the supplier of the safety data sheet

Name **MONDIAL S.N.C.**
Full address **Via Don G. Zonta 3**
District and Country **35010 Limena (PD)**
IT
Tel. +39 049768712
Fax +39 049769497

e-mail address of the competent person
responsible for the Safety Data Sheet **info@mondialprod.it**

1.4. Emergency telephone number

For urgent inquiries refer to

NHS 111 - 24/7 service
+39 02-66101029 Osp. Niguarda Ca' Granda - Milano
+39 06-68593726 Osp. Pediatrico Bambino Gesù - Roma
+39 0881-732326 Az. Osp. Univ. Foggia
+39 081-7472870 Az. Osp. A. Cardarelli - Napoli
+39 06-49978000 Policlinico A. Gemelli - Roma
+39 055-7947819 Az. Osp. Careggi U.O. Tossicologia Medica - Firenze
+39 0382-24444 Centro Nazionale di Informazione Tossicologica - Pavia
+39 800883300 Azienda Ospedaliera Papa Giovanni XXII - Bergamo
+39 06 49978000 Azienda Ospedaliero-Universitaria Policlinico Umberto I - Roma
+39 800 011 858 Azienda Ospedaliera Universitaria integrata Verona - centro.antiveleni@aovr.veneto.it

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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words: Danger

Hazard statements:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains: Enzymes May cause an allergic reaction.

Precautionary statements:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves / eye protection / face protection.
P310	Immediately call a POISON CENTER / doctor / . . .
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash with water thoroughly after handling.
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains:	2-ethylhexyl glycosides Nopol ethoxylated propoxylated mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
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Ingredients according to Regulation (EC) No. 648/2004

15% or over but less than 30% amphoteric surfactants, non-ionic surfactants, polycarboxylates

enzymes

2.3. Other hazards

On the basis of 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)
Alcohols ethoxylated propoxylated CAS 120313-48-6 EC INDEX - REACH Reg. N.A.	$10 \leq x < 12,5$	Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
2-ethylhexyl glycosides CAS - EC 414-420-0 INDEX - REACH Reg. 01-2119987144-31	$6 \leq x < 7,5$	Eye Dam. 1 H318
Nopol ethoxylated propoxylated CAS 174955-61-4 EC INDEX - REACH Reg. n.a., polimero	$6 \leq x < 7,5$	Acute Tox. 4 H302, Eye Dam. 1 H318 LD50 Oral: 300 mg/kg
Protease CAS 9014-01-1 EC 232-752-2 INDEX - REACH Reg. 01-2119480434-38	$0,115 \leq x < 0,5$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 LD50 Oral: 1800 mg/kg
mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) CAS 55965-84-9 EC 611-341-5 INDEX 613-167-00-5 REACH Reg. 01-2120764691-48	$0,0025 \leq x < 0,01$	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100 Skin Corr. 1B H314: $\geq 0,6\%$, Skin Irrit. 2 H315: $\geq 0,06\%$, Skin Sens. 1A H317: $\geq 0,0015\%$, Eye Dam. 1 H318: $\geq 0,6\%$, Eye Irrit. 2 H319: $\geq 0,06\%$ LD50 Oral: 66 mg/kg, LD50 Dermal: >141 mg/kg, STA Inhalation vapours: 0,501 mg/l, STA Inhalation mists/powders: 0,051 mg/l, STA Inhalation gas: 100 ppm

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Contact with the concentrated product may cause eye damage, skin irritation or an allergic reaction.

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

In case of allergic reaction or serious eye damage due to the contact with the product, contact a doctor.

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.

In case of fire, toxic gases may be released, such as: nitrogen oxides (NO_x), Hydrochloric acid (HCl), Carbon monoxide (CO).

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 fire fighting 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 into 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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

2-ethylhexyl glycosides

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,098	mg/l
Normal value in marine water	0,0098	mg/l
Normal value for fresh water sediment	980	mg/kg/d
Normal value for marine water sediment	98	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local
Oral				0,75 mg/kg bw/d			
Inhalation				2,6 mg/m3			10,6 mg/m3
Skin				0,75 mg/kg bw/d			1,5 mg/kg bw/d

Protease

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,06	ug/L
Normal value in marine water	0,006	ug/L
Normal value of STP microorganisms	65000	ug/L
Normal value for the terrestrial compartment	568	ug/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							60 ng/m3	60 ng/m3
Skin					0,2 % w/w	VND	VND	0,2 % w/w

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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

Avoid prolonged contact with the skin. In case of prolonged contact, use chemical resistant protective gloves made of waterproof material that is resistant to the product (category III ref. Standard EN 374). The selection of the glove material has to be made in consideration of the penetration times, rates of diffusion and the degradation. Recommended material, gloves in: - PVC (breakthrough time between 1.00 and 2.5 hours) - Nitrile (thickness 0.3 mm, breakthrough time > 1 hour) - Neoprene (thickness 0.3 mm, breakthrough time between 1 and 3 hours) Latex gloves can be used by checking the conditions of use. Not recommended material: PVA gloves. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.

SKIN PROTECTION

Wear work clothes that guarantee total protection for the skin, eg. in cotton, rubber, PVC or Viton and category I safety footwear for professional use (ref. Regulation 2016/425, standard EN ISO 13688 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

Evaluate the advisability of providing antistatic clothing in case the work environment presents a risk of explosivity.

EYE PROTECTION

Not required for normal use. In any case, operate according to good working practices. In case of open air operations with risk of contact due to the possible presence of product splashes, use sealed goggles (ref. Standard EN 166) or visor.

RESPIRATORY PROTECTION

In case of exceeding the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product, wear a mask with type AX filter whose limit of use will be defined by the manufacturer (ref. EN standard 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protection means is necessary in case the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the substance in question is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open-circuit compressed air breathing apparatus (ref. Standard EN 137) or a self-contained breathing apparatus. outdoor air (ref. EN 138 standard). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	yellowish	
Odour	typical	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Flammability	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Flash point	Not available	
Auto-ignition temperature	Not available	
pH	8,5+/-0,5	
Kinematic viscosity	Not available	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not available	
Density and/or relative density	Not available	
Relative vapour density	Not available	
Particle characteristics	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

Do not mix with other products

10.1. Reactivity

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

1,2-PROPANEDIOL

Hygroscopic. Stable in normal conditions of use and storage.

At high temperatures it tends to oxidate to form propionaldehyde and lactic and acetic acid.

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.

1,2-PROPANEDIOL

May react dangerously with: acid chlorides, acid anhydrides, oxidising agents.

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

1,2-PROPANEDIOL

May develop: carbon oxides.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, 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: >2000 mg/kg
ATE (Dermal) of the mixture: Not classified (no significant component)

1,2-PROPANEDIOL

LD50 (Oral): 20800 mg/kg Rat
LD50 (Dermal): 20800 mg/kg Rat

Alcohols ethoxylated propoxylated

LD50 (Oral): > 2000 mg/kg ratto

2-ethylhexyl glycosides

LD50 (Oral): 2000 mg/kg Ratto
LD50 (Dermal): 2380 mg/kg Ratto

Nopol ethoxylated propoxylated

LD50 (Oral): 300 mg/kg ratto

Sodium N- (2-carboxymethyl) -N- (2-ethylhexyl) - B -alanine

LD50 (Oral): > 5000 mg/kg

TRIETHANOLAMINE

LD50 (Oral): 6400 mg/kg Ratto (Dossier Reach)
LD50 (Dermal): > 2000 mg/kg Coniglio (Dossier Reach - OECD Guideline 402)
LC50 (Inhalation vapours): 1,8 mg/m³ Ratto (Dossier Reach)

Protease

LD50 (Oral): 1800 mg/kg ratto
LD50 (Dermal): > 2 ml/kg coniglio
LC50 (Inhalation vapours): 0,8 ml/l ratto

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LD50 (Oral): 66 mg/kg ratto
LD50 (Dermal): > 141 mg/kg ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LC50 - for Fish

0,22 mg/l/96h *Oncorhynchus mykiss*

EC50 - for Crustacea

0,1 mg/l/48h *Daphnia magna*

Chronic NOEC for Fish

0,098 mg/l *Oncorhynchus mykiss*

Chronic NOEC for Crustacea

0,004 mg/l *Daphnia magna*

Chronic NOEC for Algae / Aquatic Plants

0,00064 mg/l *Skeletonema costatum*

Protease

LC50 - for Fish

8,2 mg/l/96h *trota iridea*

EC50 - for Crustacea

0,17 mg/l/48h *daphnia*

Chronic NOEC for Algae / Aquatic Plants

0,041 mg/l (*Pseudokirchneriella subcapitata*)

Sodium N- (2-carboxymethyl) -N- (2-ethylhexyl) - B -alanine

EC50 - for Crustacea

> 1000 mg/l/48h *Daphnia magna*

2-ethylhexyl glycosides

LC50 - for Fish

> 310 mg/l/96h *Oncorhynchus mykiss*

EC50 - for Crustacea

> 100 mg/l/48h *Daphnia*

EC50 - for Algae / Aquatic Plants

98 mg/l/72h *alghe Pseudokirchnerella subcapitata*

Alcohols ethoxylated propoxylated

LC50 - for Fish

> 1 mg/l/96h *Leuciscus idus*

EC50 - for Crustacea

1 mg/l/48h *Daphnia magna*

EC50 - for Algae / Aquatic Plants

> 0,1 mg/l/72h

Chronic NOEC for Crustacea

> 0,1 mg/l *Daphnia magna*

Nopol ethoxylated propoxylated

EC50 - for Crustacea

> 100 mg/l/48h *Daphnia magna*

TRIETHANOLAMINE

LC50 - for Fish

11800 mg/l/96h Dossier Reach

EC50 - for Algae / Aquatic Plants

512 mg/l/72h Dossier Reach

Chronic NOEC for Fish

> 1 mg/l Dossier Reach

Chronic NOEC for Crustacea

16 mg/l Daphnia magna, 21-d

12.2. Persistence and degradability

mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
Entirely degradable

biodegradabile in impianti di fanghi attivi.

Protease

Rapidly degradable

2-ethylhexyl glycosides

Rapidly degradable

Alcohols ethoxylated propoxylated

Rapidly degradable

Nopol ethoxylated propoxylated

Rapidly degradable

TRIETHANOLAMINE

Solubility in water

> 1000000 mg/l

Rapidly degradable

1,2-PROPANEDIOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

TRIETHANOLAMINE

Partition coefficient: n-octanol/water

-1,75

BCF

< 3,9

1,2-PROPANEDIOL

Partition coefficient: n-octanol/water

-1,07

BCF

0,09

12.4. Mobility in soil

TRIETHANOLAMINE

Partition coefficient: soil/water

1

1,2-PROPANEDIOL

Partition coefficient: soil/water

0,46

12.5. Results of PBT and vPvB assessment

On the basis 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

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.

The spent solutions as the wastewater can be conveyed in authorized sewage network in accordance with legal standards.

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

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.

Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

Regulation (EU) 2017/745 (MDR)

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

- H410** Very toxic to aquatic life with long lasting effects.
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%
- 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)
- 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:

03 / 11.