

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 02.10.2017 Revision date: 16.11.2023 Supersedes version of: 14.12.2021 Version: 2.2

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

1.1. Product identifier

Product form : Substance · TARTARIC ACID Trade name Chemical name : L(+) tartaric acid EC-No. : 201-766-0 CAS-No. 87-69-4

REACH registration No. : 01-2119537204-47

Type of product : Acids Formula : C4H6O6 Product group : Trade product Other means of identification : E334

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional users only : Acidification of musts and wines. Use of the substance/mixture

Use of the substance/mixture : For œnological use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	
Bulgaria	Национален токсикологичен информационен център Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов"	бул. Ген. Едуард И. Тотлебен 21 1606 София	+359 2 9154 233	
Canada	Ontario Poison Centre (OPC)	The Hospital for Sick Children 555 University Avenue ON M5G 1X8 Toronto	1-800-268-9017 (416) 813-5900	
Canada	BC Drug and Poison Information Centre (DPIC)	655 West 12th Avenue BC V5Z 4R4 Vancouver	1-800-567-8911 (604) 682-5050	
China	National Poison Control Center	Chinese Center for Disease Control and Prevention Nanwei road, No.29 100050 Beijing	+86 10 831 32 046	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	Information available 24/7 in Croatian and English
Czech Republic	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Giftlinjen	Bispebjerg Bakke 23 Opgang 20 C 2400 København NV	+45 82 12 12 12	
Georgia	National Toxicology Information Advisory Center	Tbilisi State Medical University Department of Toxicology - 7 Asatiani St. 380 077 Tbilisi	+995 99 533320	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Japan	Japan Poison Information Center	Tsukuba Medical Center 1-1-1 Amakubo 305-0005 Tsukuba City, Ibaraki	+81-29-856-3566 +81-72-727-2499	
Jordan	National Drug & Poison Information Center of Jordan		0798506755 00962-6-5353444	

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Country	Organisation/Company	Address	Emergency number	Comment
Kazakhstan	Republican Toxicology Center	Tole-bi 93 480083 Almaty	+7 3272 925 868	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
New Zealand	National Poisons Centre	Dunedin School of Medicine, University of Otago PO Box 913 9054 Dunedin	0800 764 766 +56 2 2 247 3600	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Russia	Информационно-консультативный центр по токсикология (RTIAC) Министерство здравоохранения Российской Федерации	3 Сухаревская Площадь Блок 7 129090 г. Москва	+7 495 628 1687 (только на русском)	
Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40	
Slovenia	Center za klinično toksikologijo in farmakologijo Interna klinika, UKCL	Zaloška 7 1000 Ljubljana	+386 522 52 83	
South Africa	Tygerberg Poison Information Centre	Division of Clinical Pharmacology Faculty of Medicine and Heath Sciences Stellenbosch University - PO Box 241 8 000 Cape Town	0861 555 777 +56 2 2 247 3600	
Sweden	Giftinformationscentralen	Solna Strandväg 21 171 54 Solna	112 – begär Giftinformation	
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzısıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United States of America	American Association of Poison Control Centers	515 King St., Suite 510 VA 22314 Alexandria	1-800-222-1222 +56 2 2 247 3600	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1

H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Causes serious eye damage.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H318 - Causes serious eye damage.

Precautionary statements (CLP) : P280 - Wear eye protection, face protection, protective gloves, protective clothing.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON

CENTER.

P264 - Wash hands thoroughly after handling.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : Tartaric_Acid_Laffort

CAS-No. : 87-69-4 EC-No. : 201-766-0

Name	Product identifier	%
L(+) Tartaric acid	CAS-No.: 87-69-4	100
	EC-No.: 201-766-0	
	REACH-no: 01-2119537204-47	

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If symptoms persist call a doctor.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a

physician.

First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap. If symptoms persist,

call a physician. Wash skin with plenty of water.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Call a physician immediately.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by

mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : More detailed information: See section 11.

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation

exposure

Symptoms/effects after skin contact : None under normal conditions.

Symptoms/effects after eye contact : Eye irritation. Serious damage to eyes.

Symptoms/effects after ingestion : Gastrointestinal complaints.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : If there is a fire close by, use suitable extinguishing agents. carbon dioxide (CO2), powder, alcohol-

resistant foam, water spray. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : In case of fire and/or explosion do not breathe fumes.

Reactivity in case of fire : Not classified as flammable by EC criteria.

Hazardous decomposition products in case of fire : Under normal conditions of storage and use, hazardous decomposition products should not be

produced. Hazardous decomposition products may be released during prolonged heating like

smokes, carbon monoxide and dioxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical

fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

Other information : Do not contaminate ground and surface water. Dispose in a safe manner in accordance with

local/national regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Evacuate personnel to a

safe area.

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6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Ventilate spillage area. Do not touch or walk on the spilled product. Avoid contact with skin and

eves.

Measures in case of dust release : Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer

to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not flush into surface water or sewer system. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. Contain leaking substance, pump over in suitable containers.

Clean contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site. Do not allow to enter drains or water

courses.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Ensure good ventilation of the work station. Local exhaust is recommended

where dust may occur. Avoid contact with skin and eyes. Wear recommended personal protective equipment. Store tightly closed in a dry and cool place. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work. Always wash hands after

handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep only in the original container.

Storage conditions : Keep in a well-ventilated room. Keep container tightly closed to prevent moisture pick-up. Store

tightly closed in a dry and cool place. Keep out of direct sunlight. Store in a well-ventilated place.

Keep cool.

Incompatible products : Oxidizing agents, bases and reducing agents.

Heat and ignition sources : Keep away from ignition sources (including static discharges).

7.3. Specific end use(s)

For œnological use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

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8.1.4. DNEL and PNEC

TARTARIC ACID (87-69-4)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	≈ 2,9 mg/kg bodyweight/day NOAL: 145 mg/kg bw/day			
Long-term - systemic effects, inhalation	≈ 5,2 mg/m³ NOAL: 260 mg/kg bw/day			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	≈ 8,1 mg/kg bodyweight/day NOAL: 810 mg/kg bw/day			
Long-term - systemic effects, inhalation	≈ 1,3 mg/m³ NOAL: 130 mg/kg bw/day			
Long-term - systemic effects, dermal	≈ 1,5 mg/kg bodyweight/day NOAL: 150 mg/kg bw/day			
PNEC (Water)				
PNEC aqua (freshwater)	312,5 μg/L			
PNEC aqua (marine water)	312,5 μg/L			
PNEC aqua (intermittent, freshwater)	514 μg/L			
PNEC aqua (intermittent, marine water)	No hazards to be specially mentioned			
PNEC (Sediment)				
PNEC sediment (freshwater)	1,141 mg/kg dwt			
PNEC sediment (marine water)	1,141 mg/kg dwt			
PNEC (Soil)				
PNEC soil	44,9 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant	10 mg/l			

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid dust formation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Refer to protective measures listed in Sections 7 and 8.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. Safety glasses

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Eye protection				
Туре	Field of application	Characteristics	Standard	
Safety glasses	Dust	With side shields	EN 166	

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection		
Туре	Standard	
Chemically resistant protective gloves		

Hand protection:

Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear. Protective gloves. ISO 374-1

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Natural rubber	6 (> 480 minutes)	0.5		EN ISO 374
Chemically resistant protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN ISO 374
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes)	0.5		EN ISO 374
Chemically resistant protective gloves	Polyvinylchloride (PVC)	6 (> 480 minutes)	0.5		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing. Long sleeved protective clothing. acid resistant clothing

8.2.2.3. Respiratory protection

Respiratory protection:

No special protection required where adequate ventilation is maintained. Wear suitable respiratory equipment in case of insufficient ventilation. EN 143. EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Do not allow into drains or water courses. Avoid release to the environment.

Other information

Do not eat, drink or smoke during work. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : white.

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Appearance : Crystals. Odour : odourless. Odour threshold : Not available : ≈ 169 °C 1.013 hPa Melting point Freezing point : Not applicable : > 179,1 °C 1.013 hPa **Boiling point** Flammability : Non flammable. **Explosive properties** Not explosive. Oxidising properties Not oxidising. **Explosive limits** : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable : Not applicable Flash point Auto-ignition temperature : Not applicable Decomposition temperature : > 220 °C рΗ : Not available pH solution : ≈ 2,2 100g/L - 20°C Viscosity, kinematic : Not applicable Solubility Soluble in ethanol. Water: ≈ 1390 g/l 20°C

Partition coefficient n-octanol/water (Log Kow) : -1,91 20°C Vapour pressure : < 5 Pa 20°C Vapour pressure at 50°C : Not available : $\approx 1,76 \text{ g/cm}^3 20^{\circ}\text{C}$ Density Relative density : Not available Relative vapour density at 20°C : Not applicable : Not available Particle size Particle size distribution : Not available : Not available Particle shape Not available Particle aspect ratio Particle aggregation state Not available Particle agglomeration state Not available Particle specific surface area Not available

9.2. Other information

Particle dustiness

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Exothermic reaction on contact with: Oxidizing agents, bases and reducing agents. fluorine. silver. Metals.

: Not available

10.4. Conditions to avoid

Heat. flames or sparks. Moisture.

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10.5. Incompatible materials

oxidants, strong acids and strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: See Section 5.

SECTION 11: Toxicological information

A - 1 - 1 - 1 - 1 - 1 - 1		of Cod (Door door of the late the description)
Acute toxicity (oral) Acute toxicity (dermal)		ssified (Based on available data, the classification criteria are not met) ssified (Based on available data, the classification criteria are not met)
Acute toxicity (dermai) Acute toxicity (inhalation)		ssified (Based on available data, the classification criteria are not met)
L(+) Tartaric acid (87-69-4)		
LD50 oral rat	> 2000	(>) mg/kg
LD50 dermal rat	> 2000	mg/kg Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation	: Slightly	irritant but not relevant for classification (Based on available data, the classification criteria
	are not	met)
Serious eye damage/irritation		eye irritation
Additional information	: Causes	serious eye damage.
Respiratory or skin sensitisation	: Not cla	ssified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not cla	ssified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not cla	ssified (Based on available data, the classification criteria are not met)
L(+) Tartaric acid (87-69-4)		
NOAEL (chronic, oral, animal/male, 2 years)	2460 ו	ng/kg bodyweight
Reproductive toxicity	: Not cla	ssified (Based on available data, the classification criteria are not met)
L(+) Tartaric acid (87-69-4)		
NOAEL (animal/female, F0/P)	≈ 181	mg/kg bodyweight
STOT-single exposure	: Not cla	ssified (Based on available data, the classification criteria are not met)
L(+) Tartaric acid (87-69-4)		
NOAEL (oral, rat)	≈ 2460	mg/kg bodyweight
STOT-repeated exposure	: Not cla	ssified (Based on available data, the classification criteria are not met)
L(+) Tartaric acid (87-69-4)		
NOAEL (subchronic, oral, animal/male, 90 days)	≈ 2460	mg/kg bodyweight Animal: , Animal sex: male
NOAEL (subchronic, oral, animal/female, 90 days)	≈ 3200	mg/kg bodyweight Animal: , Animal sex: female
Aspiration hazard	: Not cla	ssified (Based on available data, the classification criteria are not met)
TARTARIC ACID (87-69-4)		
Viscosity, kinematic	Not a	plicable

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects

in the environment.

 $\label{thm:continuous} \mbox{Hazardous to the aquatic environment, short-term}$

acute)

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long–term

: Not classified (Based on available data, the classification criteria are not met)

(chronic)

L(+) Tartaric acid (87-69-4)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	> 100 mg/l Test organisms (species):
EC50 - Crustacea [1]	93,313 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	51,4043 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	93,3 mg/l
NOEC chronic fish	43,141 g/l Test organisms (species): Duration: '30 d'

12.2. Persistence and degradability

L(+) Tartaric acid (87-69-4)		
Persistence and degradability	Biodegradable.	
Biochemical oxygen demand (BOD)	\approx 0,35 g O ₂ /g substance DBO5	
Chemical oxygen demand (COD)	$\approx 0,53 \text{ g O}_2/\text{g substance}$	
Biodegradation	> 80 %	

12.3. Bioaccumulative potential

TARTARIC ACID (87-69-4)			
Partition coefficient n-octanol/water (Log Kow) -1,91 20°C			
L(+) Tartaric acid (87-69-4)			
Partition coefficient n-octanol/water (Log Kow)	≈ 1,91 20°C		
Bioaccumulative potential There is no bioaccumulation.			

12.4. Mobility in soil

L(+) Tartaric acid (87-69-4)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,76	

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : Do not allow to enter drains or water courses

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Do not flush into surface water or sewer system.

Product/Packaging disposal recommendations : Empty remaining contents. Dispose of contents/container in accordance with licensed collector's

sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated
Proper Shipping Name (IMDG) : Not regulated
Proper Shipping Name (IATA) : Not regulated
Proper Shipping Name (ADN) : Not regulated
Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Not listed on REACH Annex XVII

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 5094)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Revision - See: *.

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Indication of changes				
Section	Changed item	Change	Comments	
2.2	Precautionary statements (CLP)	Added		
8.1	PNEC aqua (freshwater)	Added		
8.1	PNEC aqua (intermittent, freshwater)	Added		
8.1	PNEC aqua (marine water)	Added		
8.1	PNEC sediment (freshwater)	Added		
8.1	PNEC sediment (marine water)	Added		
8.1	PNEC soil	Added		
15.2	Chemical safety assessment	Modified		

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	

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Abbreviations and acronyms:		
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H318	Causes serious eye damage.	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.