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STERYLSAN

Revision nr.12 Dated 10/07/2023 Printed on 10/07/2023 Page n. 1 / 11 Replaced revision:11 (Dated 02/11/2022)

Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH				
SECTION 1. Identification of the su	ubstance/mi	xture and of t	he company/undertaking	
1.1. Product identifier				
Product name	STERYLSA	N		
UFI :	QW10-20Q	Y-R00R-7YCX		
1.2. Relevant identified uses of the substance of	or mixture and u	ses advised agains	st	
Intended use	Universal v	water based additiv	ve, resistant to mould and algae.	
Uses advised against Uses other than those	indicated			
1.3. Details of the supplier of the safety data sh	eet			
Name Full address District and Country	OIKOS S.P Via Cherub 47043 Tel. Fax	.A. A SOCIO UNIC ini 2 Gatteo Mare Italia 0547 681412 0547 681430	O (FC)	
e-mail address of the competent person responsible for the Safety Data Sheet		niprodotti@oikos-	group.it	
1.4. Emergency telephone number				
For urgent inquiries refer to OIKOS S.P.A. a socio unico Company emerg Technical support - Monday to Friday from 8.	ency number: 0			
SECTION 2. Hazards identification				
2.1. Classification of the substance or mixture				
The product is classified as hazardous pursuant amendments and supplements). The product th 2020/878. Any additional information concerning the risks	us requires a saf	ety datasheet that c	omplies with the provisions of (EU) Regulation	
Hazard classification and indication:				
Skin sensitization, category 1A Hazardous to the aquatic environment, chror	nic	H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.	
toxicity, category 3 The classification of the compound, featuring ar	n extreme pH valu	ue, is based on the r	results of an appropriate in vitro test.	
2.2. Label elements Hazard labelling pursuant to EC Regulation 127 Hazard pictograms:	72/2008 (CLP) an	d subsequent amen	idments and supplements.	
Signal words: Warning				

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SECTION 2. Hazards identification ... / >>

Hazard statements: H317 H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements	5.
P501	Dispose of contents / container in accordance with local regulation.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P280	Wear protective gloves.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
Contains:	Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Product not intended for uses provided for by Directive 2004/42/EC.

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 $\ge 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-(2-butoxyet	hoxy)ethanol		
INDEX	603-096-00-8	0,044 ≤ x < 0,05	Eye Irrit. 2 H319
EC	203-961-6		
CAS	112-34-5		
REACH Reg.	01-2119475104-44		
Reaction mas	s of 5-chloro-2-meth	nyl-2H-isothiazol-3-one	[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]
(3:1)			
INDEX	613-167-00-5	0,00509 ≤ x < 0,00619	Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1C
			H314, Eye Dam. 1 H318, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=100,
			Aquatic Chronic 1 H410 M=100
EC	611-341-5		Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1A H317:
			≥ 0,0015%, Eye Dam. 1 H318: ≥ 0,6%, Eye Irrit. 2 H319: ≥ 0,06%
CAS	55965-84-9		LD50 Oral: >64 mg/kg bw, STA Dermal: 50,001 mg/kg, STA Inhalation
			vapours: 0,501 mg/l
REACH Reg.	01-2120764691-48		

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

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



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SECTION 4. First aid measures ... / >>

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

Information not available

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 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

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SECTION 8. Exposure controls/personal protection

mg/m3

Skin

NPI

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
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
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 2022

				2-(2-butoxye	thoxy)ethanc	bl			
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15m	nin	Remarks / Obs	ervations		
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	67	10	100,5 (C)	15 (C)		Hinweis		
MAK	DEU	67	10	100,5	15		Hinweis		
VLA	ESP	67,5	10	101,2	15				
VLEP	FRA	68	10	101,2	15				
VLEP	ITA	67,5	10	101,2	15				
NDS/NDSCh	POL	67		100					
WEL	GBR	67,5	10	101,2	15				
OEL	EU	67,5	10	101,2	15				
TLV-ACGIH		66	10			INHAL			
Predicted no-effect concentration - PNEC									
Normal value in	fresh wate	r					1,1	mg/l	
Normal value in	marine wat	er					0,11	mg/l	
Normal value for	or fresh wate	er sediment					4,4	mg/kg	
Normal value for	or marine wa	ater sediment					0,44	mg/kg	
Normal value of	f STP micro	organisms					200	mg/l	
Normal value for	or the terrest	trial compartn	nent				0,32	mg/kg	
Health - Derived r	no-effect lev	vel - DNEL / I	DMEL						
	Effe	ects on consu	mers			Effects on worke	rs		
Route of expos	ure Acı	ute Acu	ite	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loc	al sys	temic	local	systemic	local	systemic	local	systemic
Oral		NP		NPI	5 mg/kg bw/d				
Inhalation	60,	7 NP		40,5	40,5	101,2	NPI	67,5	67,5

mg/m3

mg/kg bw/d

50

mg/m3

NPI

mg/m3

NPI

83 mg/kg bw/d

mg/m3

mg/m3

NPI

NPI

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SECTION 8. Exposure controls/personal protection .../>>

220-239-6] (3:	1)							
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					3,39	µg/l	
Normal value in mari	ne water					3,39	µg/l	
Normal value for fres	h water sedi	ment				27	µg/kg	
Normal value for mar	ine water se	diment				27	µg/kg	
Normal value of STP	microorgani	sms				230	µg/l	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		110		90				
		µg/kg bw/d		µg/kg bw/d				
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI
	µg/m3		µg/m3		µg/m3		µg/m3	
	µg/m3		µg/m3		pg/mo		pg/mo	

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.

The following should be considered when choosing work glove material (see standard EN 374): 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 II 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 B 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.

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
Appearance		pasty liquid
Colour		white
Odour		Feeble
Melting point / freezing point		not available
Initial boiling point	>	100 °C

Information



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... / >> **SECTION 9.** Physical and chemical properties

Flammability
Lower explosive limit
Upper explosive limit
Flash point
Auto-ignition temperature
Decomposition temperature
рН
Kinematic viscosity
Dynamic viscosity
Solubility
Partition coefficient: n-octanol/water
Vapour pressure
Density and/or relative density
Relative vapour density
Particle characteristics

not flammable not determined not determined Combustion not sustained. not applicable not available 8,5 not available 9000 cps Mixable in water not available not available 1 not available not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids	
Sustained combustibility	does not sustain combustion

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	0,28 % - 2,80	g/litre
VOC (volatile carbon)	0,01 % - 0,12	g/litre
Explosive properties	not applicable	
Oxidising properties	not applicable	

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.

2-(2-butoxyethoxy)ethanol

May react with: oxidising substances.May form peroxides with: oxygen.Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.

10.4. Conditions to avoid

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

2-(2-butoxyethoxy)ethanol Avoid exposure to: air.

10.5. Incompatible materials

2-(2-butoxyethoxy)ethanol

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

2-(2-butoxyethoxy)ethanol May develop: hydrogen.

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SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

2-(2-butoxyethoxy)ethanol WORKERS: inhalation; contact with the skin.

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

2-(2-butoxyethoxy)ethanol

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

2-(2-butoxyethoxy)ethanol	
LD50 (Dermal):	2764 mg/kg Rabbit
LD50 (Oral):	5530 mg/kg Mouse
Reaction mass of 5-chloro-2-methyl	-2H-isothiazol-3-one/EC no. 247-500-71 and 2-methyl-2H-isothiazol-3-one /E

[EC no. 220-239-6] (3:1) LD50 (Dermal): 1008 mg/kg bw (rat) STA (Dermal): 50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LD50 (Oral):

LC50 (Inhalation vapours):

> 64 mg/kg bw 64-561 (rat) > 171 mg/m3 171-2360 (rat)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

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Does not meet the classification criteria for this hazard 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

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

2-(2-butoxyethoxy)ethanol				
LC50 - for Fish	1300 mg/l			
EC50 - for Crustacea	100 mg/l/48h			
EC50 - for Algae / Aquatic Plants	100 mg/l/96h			
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one	EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)			
LC50 - for Fish	> 190 µg/l 190-330			
EC50 - for Crustacea	> 7 µg/l 7-160			
EC50 - for Algae / Aquatic Plants	> 6,3 µg/l 6,3-27,3			
Chronic NOEC for Fish	46,4 μg/l 35 days			
Chronic NOEC for Crustacea	> 111 µg/l 11.1-1050			
12.2. Persistence and degradability				
2-(2-butoxyethoxy)ethanol				
Solubility in water	955 g/l			
Rapidly degradable	,			
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rapidly degradable				
12.3. Bioaccumulative potential				
2-(2-butoxyethoxy)ethanol Partition coefficient: n-octanol/water	1			
BCF	< 100			
12.4. Mobility in soil				
Information not available				
12.5. Results of PBT and vPvB assessment				
On the basis of available data, the product does not cor	tain any PBT or vPvB in percentage ≥ 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.

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SECTION 12. Ecological information ... / >>

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

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

Re	estrictions relating to the product or contained substances pursuant to A	nnex XVII to EC Regulation 1907/2006
F	Product	

Product	
Point	3 - 40
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)



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SECTION 15. Regulatory information ... / >>

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

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. 1C	Skin corrosion, category 1C
Eye Irrit. 2	Eye irritation, category 2
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.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

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



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SECTION 16. Other information ... / >>

- 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: 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.

⁻ TLV: Threshold Limit Value