Safety Data Sheet



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 7/2/2012 Revision date: 8/28/2023 Supersedes: 3/14/2023 Version: 2.2 SDS No: 00056-0155

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

1.1. Product identifier

Product form : Mixture
Product name : Lifo-Scrub

UFI : J0EV-Q7VT-W00G-T09Y

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Hand and skin antiseptic

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Distributor

B. Braun Medical AG
Seesatz 17
CH-6204 Sempach
B. Braun Melsungen AG
Carl-Braun-Straße 1
D-34212 Melsungen

Switzerland Germany

T +41 (0) 58 / 258 50 00 T +49(0) 5661 / 71-4422 info.bbmch@bbraun.com logistics.service@bbraun.com

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.4. Emergency telephone number

Emergency number : INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

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
Hazardous to the aquatic environment – Acute Hazard, H400

Category 1

Hazardous to the aquatic environment – Chronic Hazard, H411

Category 2

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

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :





Signal word (CLP) : Danger

Contains : Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides; Chlorhexidine digluconate

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

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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P310 - Immediately call a POISON CENTER, a doctor.

P501 - Dispose of contents and container to an approved waste disposal plant.

P273 - Avoid release to the environment.

Extra phrases : Applies for those countries where this product is classified as medicinal product; as ready

for use medicinal product, this product is not subject to labelling obligation according to the

CE directives in these countries.

Labelling according to: exemption for packages of a capacity of 125ml or less

Hazard pictograms (CLP)



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides; Chlorhexidine digluconate

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

Precautionary statements (CLP) : P280 - Wear eye protection.

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contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER, a doctor.

Extra phrases : Applies for those countries where this product is classified as medicinal product; as ready

for use medicinal product, this product is not subject to labelling obligation according to the

CE directives in these countries.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical characterization : Aqueous solution

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amines, C12-14 (even numbered)-alkyldimethyl, Noxides	CAS-No.: 308062-28-4 EC-No.: 931-292-6 REACH-no: 01-2119490061- 47	< 10	Acute Tox. 4 (Oral), H302 (ATE=1064 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Propan-2-ol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25	< 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Chlorhexidine digluconate	CAS-No.: 18472-51-0 EC-No.: 242-354-0 REACH-no: 01-2119946568- 22	< 5	Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Alkyl (C16-18)polyethyleneglycol tetra decylene glycolether	CAS-No.: 96081-39-9 EC-No.: 619-192-8	< 3	Eye Irrit. 2, H319 Aquatic Chronic 2, H411

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Data of item 4 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in

sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities. Take off immediately all contaminated clothing. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek

medical advice.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Do NOT induce vomiting. Attention in case of vomiting - acute danger of suffocating,

produced by foaming ingredients. Rinse mouth. Drink plenty of water. Do not induce

vomiting without medical advice. Call a doctor.

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

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

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 : Product itself does not burn. Fire-extinguishing activities according to surrounding. Water

spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.
Explosion hazard : Product is not explosive.

Hazardous decomposition products in case of fire : Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

5.3. Advice for firefighters

Precautionary measures fire : Cool endangered containers with water spray jet.

Firefighting instructions : Fight fire from safe distance and protected location.

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

breathing apparatus. Complete protective clothing.

Other information : Fire residues and contaminated firefighting water must be disposed of in accordance with

the local regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

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 discharge into drains or the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dike and contain spill.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

See Section 1.

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

Monitoring methods		
Monitoring methods	A specific exposure sampling method is not available.	
Biological monitoring methods	A specific exposure sampling method is not available	

8.1.3. Air contaminants formed

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8.1.4. DNEL and PNEC

3.1.4. DNEL and PNEC		
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (308062-28-4)		
DNEL/DMEL (Workers) Long-term - systemic effects, dermal 11 mg/kg bodyweight/day		
11 mg/kg bodyweight/day		
6.2 mg/m³		
0.44 mg/kg bodyweight/day		
1.53 mg/m³		
5.5 mg/kg bodyweight/day		
0.0335 mg/l		
0.00335 mg/l		
0.0335 mg/l		
5.24 mg/kg dwt		
0.524 mg/kg dwt		
1.02 mg/kg dwt		
11.1 mg/kg food		
PNEC (STP)		
24 mg/l		
888 mg/kg bodyweight/day		
500 mg/m³		
26 mg/kg bodyweight/day		
88 mg/m³		
319 mg/kg bodyweight/day		
PNEC (Water)		
140.9 mg/l		
140.9 mg/l		
PNEC (Sediment)		
552 mg/kg dwt		
552 mg/kg dwt		
PNEC (Soil)		
28 mg/kg dwt		

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Chlorhexidine digluconate (18472-51-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.42 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.03 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.1 mg/m³
Long-term - systemic effects, dermal	0.03 mg/kg bodyweight/day

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.

8.2.2. Personal protection equipment

Personal protective equipment:

Data of item 8 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

8.2.2.1. Eye and face protection

Eye protection:

Eyewash bottle with clean water (EN 15154)

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses with side shields	Liquid splashes may occur		EN 166

8.2.2.2. Skin protection

Skin and body protection		
Туре	Standard	
Long sleeved protective clothing	EN ISO 6530	

Hand protection:

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Butyl rubber	6 (> 480 minutes)	0,7		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No personal breathing protective equipment is normally required

8.2.2.4. Thermal hazards

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : red.

Odour : characteristic. perfumed.

Odour threshold: Not availableMelting point: Not availableFreezing point: Not availableBoiling point: $\approx 100 \,^{\circ}$ CFlammability (solid, gas): Non flammable.

Explosive properties : Product is not explosive.

Oxidising properties : Not oxidising. Lower explosive limit (LEL) : Not available : Not available Upper explosive limit (UEL) : Not available Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : 5.5 – 7 Viscosity, kinematic : Not available Viscosity, dynamic : ≈ 100 mPa·s at 25°C Solubility : Miscible with water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available

Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 0.99 – 1.01 g/cm³
Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : < 5 %

Additional information : Solvent content : < 5 %

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.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

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10.5. Incompatible materials

No materials to be especially mentioned.

10.6. Hazardous decomposition products

No hazardous decomposition products known. Thermal decomposition generates: Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

SECTION 11: Toxicological information

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

Acute toxicity (oral)

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

1. Acute toxicity (dermal)

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

1. Acute toxicity (inhalation)

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

Acute toxicity (inhalation)	 Not classified (Based on available data, the classification criteria are not met)
Amines, C12-14 (even numbered)-a	alkyldimethyl, N-oxides (308062-28-4)
LD50 oral rat	1064 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight
Propan-2-ol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	13900 mg/kg
LC50 Inhalation - Rat	> 25 mg/l 4 h
Chlorhexidine digluconate (18472-	51-0)
LD50 oral rat	2270 mg/kg OECD 401
LD50 dermal rat	> 5000 mg/kg US-EPA
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 5.5 – 7
Serious eye damage/irritation	: Causes serious eye damage. pH: 5.5 – 7
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified. (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2. Other information

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term : Toxic to ac

(chronic)

: Toxic to aquatic life with long lasting effects.

()		
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (308062-28-4)		
LC50 fish 1	2.67 mg/l 96 h, Pimephales promelas	
EC50 Daphnia 1	3.1 mg/l Daphnia magna (Water flea)	
ErC50 algae	0.143 mg/l Pseudokirchneriella subcapitata	
NOEC chronic fish	0.42 mg/l Pimephales promelas	
NOEC chronic crustacea	0.7 mg/l Daphnia magna (Water flea)	
NOEC chronic algae	≥ 0.067 mg/l	
Propan-2-ol (67-63-0)		
LC50 fish 1	9640 mg/l Pimephales promelas, 96 h	
EC50 Daphnia 1	10000 mg/l Daphnia magna, 48 h	
EC50 72h - Algae [1]	1800 mg/l Desmodesmus subspicatus, 72 h	
Chlorhexidine digluconate (18472-51-0)		
LC50 fish 1	2.08 mg/l 96 h, OECD 203, Brachydanio rerio (zebra-fish)	
EC50 Daphnia 1	0.087 mg/l 48 h, OECD 202, Daphnia magna (Water flea)	
ErC50 algae	0.081 mg/l 72 h, OECD 201, Scenedesmus subspicatus	
NOEC chronic crustacea	0.0206 mg/l 21 d, OECD 211, Daphnia magna (Water flea)	

12.2. Persistence and degradability

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (308062-28-4)		
Persistence and degradability Readily biodegradable, according to appropriate OECD test 28 days (Dauer).		
Propan-2-ol (67-63-0)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	95 % 21 d, (OECD 301E method)	

12.3. Bioaccumulative potential

Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides (308062-28-4)	
Log Pow 2.7	
Propan-2-ol (67-63-0)	
Log Pow 0.05	

12.4. Mobility in soil

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12.5. Results of PBT and vPvB assessment

Lifo-Scrub

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7. Other adverse effects

Other adverse effects

: The product contains organically halogen, it can contribute to the adsorbable organic halogen value.

Additional information

: Ecological injuries are not known or expected under normal use. This concentrate is not allowed to be released into the sewerage, surface water or groundwater. Cationic substances are known to be widely removed through adsorption in wastewater treatment processes.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Recycling is preferred to disposal or incineration. Can be incinerated according to local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. The waste code/waste name refers to the end product. To be defined by the customer in agreement with appropriate waste disposal company.

Product/Packaging disposal recommendations

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

European List of Waste (LoW) code

: 07 06 99 - wastes not otherwise specified

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID n	14.1. UN number or ID number				
UN 3082					
14.2. UN proper shippin	14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate)					

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ADR	IMDG	IATA	ADN	RID	
Transport document description					
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Chlorhexidine digluconate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate), 9, III	
14.3. Transport hazard	class(es)				
9	9	9	9	9	
***************************************	**************************************		***************************************	***************************************	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information	on available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90

Orange plates :

90 3082

Tunnel restriction code (ADR) : -

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29 : F-A EmS-No. (Fire) : S-F EmS-No. (Spillage) : A Stowage category (IMDG)

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Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Transport category (RID) : 3
Hazard identification number (RID) : 90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(a)	Propan-2-ol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	
3(b)	Lifo-Scrub; Alkyl (C16- 18)polyethyleneglycol tetra decylene glycolether ; Propan-2-ol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	
3(c)	Lifo-Scrub ; Alkyl (C16- 18)polyethyleneglycol tetra decylene glycolether	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	
40.	Propan-2-ol	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : < 5 %

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Seveso Directive (Disaster Risk Reduction)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

15.1.2. National regulations

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS No: 00056-0155

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
3.2	Hazard statements (CLP)	Removed	

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		
BCF	Bioconcentration factor		
ATE	Acute Toxicity Estimate		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
DOT	Department of Transport		
TDG	Transportation of Dangerous Goods		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals		
IARC	International Agency for Research on Cancer		
vPvB	Very Persistent and Very Bioaccumulative		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships		
ADG	Transport of Australian Dangerous Goods		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS No: 00056-0155

Abbreviations and acronyms:			
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		
SDS	Safety Data Sheet		
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		
ED	Endocrine disrupting properties		

Other information

: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Full text of H- and EUH-statements:			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
H225	Highly flammable liquid and vapour.		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis		

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS No: 00056-0155

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Eye Dam. 1	H318	Calculation method	
Aquatic Acute 1	H400	Calculation method	
Aquatic Chronic 2	H411	Calculation method	

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 therefore not be construed as guaranteeing any specific property of the product.