

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Review date: 24/08/2022 Supersedes version of: 15/12/2021 Version: 15.0

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

1.1. Product identifier

Product form : Mixture

Product name : LUFRAGERM +

Product code : 1311 Type of product : Detergent Product group : Mixture

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

1.2.1. Relevant identified uses

: Professional uses Main use category Use of the substance/mixture : Disinfectant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

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Distributor

Christeyns Technologies Ltd. Mazars, Block 3, Harcout Centre, Harcourt Road IE-2 Dublin Ireland

T +353 1 8146022

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290 Skin corrosion/irritation, Category 1 H314 Serious eye damage/eye irritation, Category 1 H318 Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05 GHS

CLP Signal word : Danger

Contains : Didecyldimethylammonium Chloride Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.

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

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. 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

POISON CENTER or doctor.

P273 - Avoid release to the environment.

2.3. Other hazards

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

Component	
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)	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
Alcohols, C12-18, ethoxylated (68213-23-0)	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

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Didecyldimethylammonium Chloride (Active substance (Biocide))	CAS-no: 7173-51-5 Einecs nr: 230-525-2 EG annex nr: 612-131-00-6	3 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-	CAS-no: 160875-66-1 Einecs nr: 605-233-7 REACH-no: exemption polymer	3-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Alcohols, C12-18, ethoxylated	CAS-no: 68213-23-0 Einecs nr: 500-201-8 REACH-no: exemption polymer	1-3	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1,2-ethanediol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-no: 107-21-1 Einecs nr: 203-473-3 EG annex nr: 603-027-00-1 REACH-no: 01-2119456816- 28	< 3	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium carbonate substance with national workplace exposure limit(s) (RO)	CAS-no: 497-19-8 Einecs nr: 207-838-8 EG annex nr: 011-005-00-2 REACH-no: 01-2119485498- 19	1 – 3	Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy-	CAS-no: 160875-66-1 Einecs nr: 605-233-7 REACH-no: exemption polymer	(1 ≤C ≤ 10) Eye Irrit. 2, H319 (10 <c 1,="" 100)="" dam.="" eye="" h318<="" td="" ≤=""></c>

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : In case of doubt or persistent symptoms, consult always a physician.

Inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing.

Skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash skin with

plenty of water and soap.

Eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Ingestion : Rinse mouth with water, do not induce vomiting, call a doctor.

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

Acute effects inhalation: No data available.Acute effects skin: Causes severe burns.Acute effects eyes: Causes serious eye damage.

Acute effects oral route : No data available.

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 : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Combustion products may include the following: carbon oxides (CO, CO2) (carbon

monoxide, carbon dioxide) nitrogen oxides (NO, NO2 etc.).

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent fire fighting water

from entering the environment.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.

Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and

eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment : Use self-contained breathing apparatus and chemically protective clothing.

Emergency procedures : Stop leak if safe to do so. Prevent from entering sewers, basements and workpits, or any

place where its accumulation can be dangerous.

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.

Methods for cleaning up : Clear up rapidly by scoop or vacuum. Wash away remainder with plenty of water.

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

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Emergency eye wash fountains should be

available in the immediate vicinity of any potential exposure. Do not breathe vapours. Avoid

contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink

or smoke in areas where product is used. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Protect from sunlight. Keep only in original container.

Incompatible materials : Metals. Storage temperature : $5-40\,^{\circ}\text{C}$ Material(s) to avoid : metals.

Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

1,2-ethanediol (107-21-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethylene glycol	
IOEL TWA	52 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	104 mg/m³	
IOEL STEL [ppm]	40 ppm	
Remark Skin		
Regulatory reference COMMISSION DIRECTIVE 2000/39/EC		
Ireland - Occupational Exposure Limits		
OEL TWA [1]	52 mg/m³	
United Kingdom - Occupational Exposure Limits		
Local name Ethane-1,2-diol		
WEL TWA (OEL TWA) [1] 10 mg/m³ particulate 52 mg/m³ vapour		
WEL TWA (OEL TWA) [2] 20 ppm vapour		
WEL STEL (OEL STEL) 104 mg/m³ vapour		
WEL STEL (OEL STEL) [ppm]	40 ppm vapour	
Remark Sk (Can be absorbed through the skin. The assigned substances are those for which are concerns that dermal absorption will lead to systemic toxicity)		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

No additional information available

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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

8.2.2.1. Eye and face protection

Eve protection:

EN 166. Safety glasses

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing minimum (EN 13034) Type 6 equipment

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be checked with the glove producer. Nitrile-rubber protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

No personal breathing protective equipment is normally required. In case of inadequate ventilation wear respiratory protection. Breathing apparatus with combined vapor/particle filter (EN 141). Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust

8.2.2.4. Thermal hazards

No additional information available

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 : Yellow.
Physical state/form : Liquid.
Odour : Lemon.
Odour threshold : Not available

Melting point/range : Not determined as it is not relevant for the characterization of the product
Freezing point : Not determined as it is not relevant for the characterization of the product
Softening point : Not determined as it is not relevant for the characterization of the product

Boiling point/Boiling range : ≥ 100 °C Not determined as it is not relevant for the characterization of the product

Flammability : Not applicable (aqueous liquid)

Explosive properties : Constituents do not contain chemical groups associated with explosivity.

Explosive limits : Not available

Lower explosion limit : Not determined as it is not relevant for the characterization of the product
Upper explosion limit : Not determined as it is not relevant for the characterization of the product
Flash point : Not determined as it is not relevant for the characterization of the product
Autoignition temperature : Not determined as it is not relevant for the characterization of the product
Decomposition temperature : Not determined as it is not relevant for the characterization of the product

pH : 12 – 13.5
pH solution concentration : 100 %
Viscosity, kinematic : Not available

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: Water: 100 % Solubility Partition coefficient n-octanol/water (Log Kow) : Not available

Log Pow : Not applicable for preparations

: Without VOC (volatile organic compounds) Vapour pressure

Vapour pressure at 50°C : Not available Density : 1.02 g/cm³ : 1.015 - 1.03 Relative density

Relative vapour density at 20°C : Without VOC (volatile organic compounds)

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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)		
LD50 oral rat	500 – 2000 mg/kg	
ATE CLP (oral)	500 mg/kg bodyweight	
Alcohols, C12-18, ethoxylated (68213-23-0)		
LD50 oral rat	300 – 2000 mg/kg	
ATE CLP (oral)	500 mg/kg bodyweight	
1,2-ethanediol (107-21-1)	1,2-ethanediol (107-21-1)	
ATE CLP (oral)	500 mg/kg bodyweight	
Didecyldimethylammonium Chloride (7173-51-5)		
ATE CLP (oral)	500 mg/kg bodyweight	

Didecyldimethylammonium Chloride (7173-51-5)		
ATE OLD (I)	500 // 1 1 : 14	

Skin corrosion/irritation : Causes severe skin burns.

pH: 12 - 13.5

Additional information : Mixture with pH extrem >= 11.5_ CLP 3.2.2.5_3.3.2.2.4

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)	
рН	± 7
Didecyldimethylammonium Chloride (7173-51-5)	
рН	6.5 – 8

Serious eye damage/irritation : Causes serious eye damage.

pH: 12 - 13.5

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Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)		
рН	± 7	
Didecyldimethylammonium Chloride (7173-51-5)		
рН	6.5 – 8	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
1,2-ethanediol (107-21-1)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Aspiration hazard

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

: Not classified

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

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)		
EC50 - Crustacea [1]	≥ 10 (10 – 100) mg/l	
1,2-ethanediol (107-21-1)		
LC50 - Fish [1]	18500 mg/l Oncorhynchus mykiss (Rainbow trout)	
LC50 - Fish [2]	> 10000 mg/l (Pimephales promelas)	
EC50 - Crustacea [1]	46300 mg/l	
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea	
EC50 - Other aquatic organisms [2]	6500 mg/l	
ErC50 algae	6500 – 13000 mg/l (Pseudokirchneriella subcapitata)	
NOEC chronic fish	15380 mg/l (Pimephales promelas)	
NOEC chronic crustacea	8590 mg/l (Daphnia)	
NOEC chronic algae	> 10000 mg/l (Desmodesmus subspicatus)	
Didecyldimethylammonium Chloride (7173-51-5)		
EC50 - Crustacea [1]	0.03 mg/l	
EC50 96h - Algae [1]	0.06 mg/l	
12.2 Pareistance and degradability		

12.2. Persistence and degradability

z.z. Persistence and degradability		
LUFRAGERM +		
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.	
Alcohols, C12-18, ethoxylated (68213-23-0)		
Persistence and degradability	Biodegradable.	
1,2-ethanediol (107-21-1)		
Persistence and degradability	Readily biodegradable. (OECD 302B method).	

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12.3. Bioaccumulative potential

LUFRAGERM +		
Log Pow	Not applicable for preparations	
1,2-ethanediol (107-21-1)		
BCF - Fish [1]	10 (Leuciscus idus)	
Bioconcentration factor (BCF REACH)	10 (Leuciscus idus)	
Bioaccumulative potential	No bioaccumulation.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega-hydroxy- (160875-66-1)	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
Alcohols, C12-18, ethoxylated (68213-23-0)	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

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste / unused products

Product/Packaging disposal recommendations

: Dispose of this material and its container at hazardous or special waste collection point.

- : a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. Refer to manufacturer/supplier for information on recovery/recycling.
- : Collect all waste in suitable and labelled containers and dispose according to local legislation.

European List of Waste (LoW) code

HP Code

: 20 01 29* - detergents containing dangerous substances

: HP8 - "Corrosive:" waste which on application can cause skin corrosion. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for

one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name		
CORROSIVE LIQUID, N.O.S. (Didecyldimethylammoniumchloride)	CORROSIVE LIQUID, N.O.S. (Didecyldimethylammoniumchloride)	Corrosive liquid, n.o.s. (Didecyldimethylammoniumchloride)
Transport document description		
UN 1760 CORROSIVE LIQUID, N.O.S. (Didecyldimethylammoniumchloride), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1760 CORROSIVE LIQUID, N.O.S. (Didecyldimethylammoniumchloride), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1760 Corrosive liquid, n.o.s. (Didecyldimethylammoniumchloride), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
8	8	8
***************************************	**************************************	**************************************
14.4. Packing group		
III	III	III

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ADR	IMDG	IATA
14.5. Environmental hazards		
Dangerous for the environment: Yes Dangerous for the environment: Yes Marine pollutant: Yes Dangerous for the environment: Yes		
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C9
Special provisions (ADR) : 274
Limited quantities (ADR) : 5I

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

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T7
(ADR)

Portable tank and bulk container special provisions

(ADR)

: TP1, TP28

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80

Orange plates

80 1760

Tunnel code : E
EAC code : 2X
APP code : B

Transport by sea

Special provisions (IMDG) : 223, 274

Limited quantities (IMDG) : 5 L

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Air transport

PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803

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

CESIO recommendations : The surfactant(s) contained in this preparation complies(comply) with the b

: The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent

manufacturer.

Other information, restriction and prohibition

regulations

: Not affected by the conditions of restriction _ ANNEXE XVII.

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REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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 substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Didecyldimethylammonium chloride (7173-51-5)

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)

Detergent Regulation (648/2004)

Labelling of contents		
Component %		
non-ionic surfactants 5-15%		
Didecyldimethylammonium Chloride		
TOCOPHEROL		
perfumes		

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)

15.1.2. National regulations

No additional information available

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
	Regulatory framework	Added	

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	

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Abbreviations and ac	ronyms:		
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		
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		

Other information

: It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users. Such information is actually to be best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other product(s). EC Regulation 1272/2008 and its amendments.

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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
Skin Corr. 1B Skin corrosion/irritation, Category 1, Sub-Category 1B		
STOT RE 2 Specific target organ toxicity – Repeated exposure, Category 2		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290	Calculation method
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), EU

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.