Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: FFF157 - TECHNO DIS Issue date: 6/16/2017 Revision date: 9/6/2022 Supersedes version of: 3/15/2021 Version: 3.2

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

1.1. Product identifier	
Product form	: Mixture
Product name	: TECHNO DIS
Product code	: 303203-303213-303223-303233
Type of product	: Detergent
Product group	: Trade product
1.2.1. Relevant identified uses	substance or mixture and uses advised against
Main use category	: Professional use
Industrial/Professional use spec	: Industrial
·	For professional use only
Use of the substance/mixture	: Degreasant
	Cleansing agent
1.2.2. Uses advised against	
No additional information available	

1.3. Details of the supplier of the safety data sheet

IPC 10 Quai Malbert, 29200, BREST, FRANCE. Tel. : +33 (0)2 98 43 45 44. Fax : +33 (0)2 98 44 22 53 ipc@groupe-ipc.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
France	ORFILA		+33 1 45 42 59 59	This number provides contact details for all French Poison Control centers. These poison and toxicovigilance centers provide free medical assistance (excluding call costs), 24 hours a day, 7 days a week.

SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Skin corrosion/irritation, Category 1, Sub-Category 1A Serious eye damage/eye irritation, Category 1 Full text of H- and EUH-statements: see section 16	H314 H318
Adverse physicochemical, human health and environmental effects No additional information available	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 Signal word (CLP) : Danger Contains : Potassium hydroxide Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage. Precautionary statements (CLP) : P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P311 - Call a POISON CENTER or doctor/physician. P404 - Store in a closed container. P102 - Keep out of reach of children. P280 - Wear protective gloves, eye protection, protective clothing. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

2.3. Other hazards

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

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]
Potassium hydroxide	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136- 33	10 – 20	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Ethanediol	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816- 28	1 – 10	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
sel de sodium de l'acide ethylènediamine tétraacétique	CAS-No.: 64-02-8 EC-No.: 200-573-9 EC Index-No.: 607-428-00-2 REACH-no: 01-2119486762- 27	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-cocoamidopropyl dimethylamine oxide	CAS-No.: 68155-09-9 EC-No.: 268-938-5 EC Index-No.: 01- 2119490061-47 REACH-no: 01-2119490061- 47	1 – 5	Eye Dam. 1, H318 Skin Irrit. 2, H315

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Potassium hydroxide	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136- 33	(0.5 ≤C < 2) Skin Irrit. 2, H315 (0.5 ≤C < 2) Eye Irrit. 2, H319 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314	

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	S
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects Symptoms/effects after eye contact	Causes severe skin burns and eye damage.Causes serious eye damage.
4.3. Indication of any immediate med	lical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.Do not use a heavy water stream.
5.2. Special hazards arising from the subs	stance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.

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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	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	Equip cleanup crew with proper protection.Ventilate area.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.		

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.	

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and stora	age
7.1. Precautions for safe handling	
Precautions for safe handling 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. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. 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, in	cluding any incompatibilities
Technical measures Storage conditions Incompatible products Incompatible materials	 Comply with applicable regulations. Store in original container. Keep container closed when not in use. Strong acids. Sources of ignition. Direct sunlight.
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

Potassium hydroxide (1310-58-3)		
France - Occupational Exposure Limits		
Local name Potassium (hydroxyde de)		
VLE (OEL C/STEL) 2 mg/m ³		
Ethanediol (107-21-1)		
France - Occupational Exposure Limits		
Local name Ethylèneglycol (vapeur)		
VME (OEL TWA) 52 mg/m ³		

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Ethanediol (107-21-1)	
VME (OEL TWA) [ppm]	20 ppm
VLE (OEL C/STEL)	104 mg/m³
VLE (OEL C/STEL) [ppm]	40 ppm

8.1.2. Recommended monitoring procedures

No additional information available

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

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment: Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Ocular shower with suitable liquid. Avoid contact with eyes. Failing water point near

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Avoid contact with the skin and the eyes. Immediately remove contaminated or damp clothing

Hand protection:

Protective gloves made of latex. Wear suitable gloves. Nitrile rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	
Colour	

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Appearance	: Liquid.
Odour	: Weak.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 13 – 14
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1.12 +/-0.01
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

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Basic product. Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

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			

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Potassium hydroxide (1310-58-3)				
LD50 oral rat	273 mg/kg			
Ethanediol (107-21-1)				
	7740			
LD50 oral rat	7712 mg/kg			
LD50 oral	7712 mg/kg bodyweight			
LD50 dermal rabbit	> 10600 mg/kg			
LD50 dermal	10600 mg/kg bodyweight			
LC50 Inhalation - Rat (Dust/Mist)	> 2500 mg/l			
sel de sodium de l'acide ethylènediamine tét	raacétique (64-02-8)			
LD50 oral	1780 mg/kg bodyweight			
N-cocoamidopropyl dimethylamine oxide (68	155-09-9)			
LD50 oral rat	1064 mg/kg			
LD50 dermal rat	> 2000 mg/kg			
Skin corrosion/irritation :	Causes severe skin burns. pH: 13 – 14			
Serious eye damage/irritation :	Causes serious eye damage. pH: 13 – 14			
Respiratory or skin sensitisation :	Not classified			
Additional information :	Based on available data, the classification criteria are not met			
Germ cell mutagenicity :	Not classified			
Additional information : Carcinogenicity :	Based on available data, the classification criteria are not met Not classified			
Additional information :	Based on available data, the classification criteria are not met			
Reproductive toxicity :	Not classified			
Additional information :	Based on available data, the classification criteria are not met			
STOT-single exposure :	Not classified			
Additional information :	Based on available data, the classification criteria are not met			
STOT-repeated exposure :	Not classified			
Additional information :	Based on available data, the classification criteria are not met			
Ethanediol (107-21-1)				
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
sel de sodium de l'acide ethylènediamine tét	raacétique (64-02-8)			
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)			
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat			
Aspiration hazard : Additional information :	Not classified Based on available data, the classification criteria are not met			
11.2. Information on other hazards				
11.2.1. Endocrine disrupting properties				
11.2.2. Other information				
Potential adverse human health effects and :	Based on available data, the classification criteria are not met			
symptoms				

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12.1. Toxicity Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified		
Haradous to the aquatic environment, long-term : Not classified (anote) : Not classified Parabolus the aquatic environment, long-term : Not classified (chrone) : Not classified Decision hydroxide (1310-56-3) : Not classified L500 - Fish [1] : Not classified E500 - Chrone classified : Not classified E500 - Chrone classified : Not classified E500 - Chrone classified (107-21-1) : Not classified E500 - Chrone classified classified (107-21-1) : Not classified E500 - Chrone classified classified (107-21-1) : Not classified E500 - Chrone classified (102 end try) : Not classified (102 end try) E500 - Chrone classified (102 end try) : Alot mg/l Test cryanisms (Speciels): Daphnin mgna E500 - Chrone classified (102 end try) : So mg/l Test cryanisms (Speciels): Pawidokichnericlas subcapitata, Selenastrum capricomutum L600 (chronic) : So mg/l Test cryanisms (Speciels): Daphna mgna Duration: 21 d' L600 (chronic	SECTION 12: Ecological information	
Gardia Sol dasilied Preservice with enclosion withenclosion with enclosion withe	12.1. Toxicity	
pctosicij Potasci in hydroxide (1310-58-3) Potasci in hydroxide (1310-58-3) 28.6 mg/l LC60 - Fish [1] 28.6 mg/l EG95 - Crusiacea [1] > 10000 mg/l EC50 - Crusiacea [1] > 1000 mg/l waterflea EC50 - Crusiacea (1] > 121 mg/l EC50 - Crusiacea [1] > 121 mg/l EC50 - Crusiacea [1] 255 mg/l vaterflea EC50 - Crusiacea [1] 257 mg/l vaterganisms (species): Daphnia magna Duraton: 21 d' NCEC (chrunic) 25 mg/l Test organisms (species): Daphnia magna Duraton: 21 d' NCEC (chrunic) 257 mg/l Test organisms (species): Daphin in mg/n Erst organisms (species): Daphnia magna Durat	Hazardous to the aquatic environment, short-term : (acute)	Not classified
LC50 - Fish [1] 28.6 mgl EC50 - Crustacea [1] > 100 mgl Ethanediol (107-21-1) LC50 - Fish [1] > 10000 mgl EC50 - Crustacea [1] > 10000 mgl EC50 - Crustacea [1] > 10000 mgl EC50 - Other aquatic organisms [2] 6500 mgl ES60 - Other aquatic organisms [2] 217 mgl EC50 - Other aquatic organisms [2] 2.77 mgl EC50 - Other aquatic organisms [2] 2.67 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 2.57 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.57 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.67 mgl Test organisms (species): Daphnia magna Duration: '21 d'	Hazardous to the aquatic environment, long-term : (chronic)	Not classified
EC50 - Crustacea [1] > 100 mg1 Ethanediol (107-21-1) LC50 - Fish [1] > 10000 mg1 EC50 - Crustacea [1] > 1000 mg1 EC50 - Crustacea [1] > 1000 mg1 waterflea EC50 - Other aquatic organisms [2] 6500 mg1 Sel de socium de l'acide ethylènediamine tétractique (64-02-8) LC50 - Fish [1] > 121 mg1 EC50 - Other aquatic organisms [2] 2.77 mg1 EC50 - Other aquatic organisms [1] 625 mg1 waterflea EC50 - Other aquatic organisms [2] 2.77 mg1 EC50 - Cheronic) 50 mg1 Test organisms (species): Daphnia magna Duration: 21 d' NOEC (chronic) 50 mg1 Test organisms (species): Daphnia magna Duration: 21 d' NOEC chronic fish 2.57 mg1 Test organisms (species): Daphnia magna Duration: 21 d' NOEC chronic fish 2.67 - 3.46 mg1 EC50 - Chish [1] 2.67 - 3.46 mg1 EC50 - Chish [1] 2.67 - 3.46 mg1	Potassium hydroxide (1310-58-3)	
Ethanediol (107-21-1) LC50 - Fish [1] > 10000 mgl EC50 - Crustacea [1] > 10000 mgl EC50 - Other aquatic organisms [1] > 100 mgl waterflea EC50 - Other aquatic organisms [2] 6500 mgl sel de sodium de l'acide ethylènediamine tétractique (64-02-8) LC50 - Fish [1] > 121 mgl EC50 - Other aquatic organisms [2] 625 mgl Test organisms (species): Daphnia magna EC50 - Other aquatic organisms [1] 625 mgl Vaterflea EC50 - Other aquatic organisms [2] 2.77 mgl EC50 - Other aquatic organisms [2] 2.77 mgl EC50 - Other aquatic organisms [2] 50 mgl Test organisms (species): Pseudokirchnarielia subcapitata (previous names: Raphidocelia subcapitata, Selenastrum capricornutum) LC5C (chronic) 50 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 2.57 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic lish 2.67 - 3.46 mgl LC50 - Fish [1] 2.67 - 3.46 mgl EC50 - Crustacea [1] 3.1 mgl 12.2. Persistence and degradability The surfactant(s) contained in this preparation complies/comply) with the biodegradability criter	LC50 - Fish [1]	28.6 mg/l
LC50 - Fish [1] > 1000 mgl LC50 - Crustacea [1] > 100 mgl waterflea LC50 - Other aquatic organisms [2] 6500 mgl sel de sodium de l'acide ethylènediamine tétrættique (64-02-8) LC50 - Tish [1] LC50 - Tish [1] > 121 mgl EC50 - Other aquatic organisms [2] 625 mgl waterflea EC50 - Other aquatic organisms [1] > 121 mgl EC50 - Other aquatic organisms [2] 2.77 mgl EC50 - Cheria clinith 2.50 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 50 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.5.7 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.5.7 mgl Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.5.7 ngl Test organisms (species): Daphnia magna Duration: '21 d' NoEC chronic fish 2.5.7 ngl Test organisms (species): Daphnia magna Duration: '21 d' <t< td=""><td>EC50 - Crustacea [1]</td><td>> 100 mg/l</td></t<>	EC50 - Crustacea [1]	> 100 mg/l
ECS0 - Crustacea [1] > 1000 mg1 ECS0 - Crustacea [1] > 100 mg1 waterflea ECS0 - Other aquatic organisms [2] 6500 mg1 sel de sodium de l'acide ethylènediamine tét	Ethanediol (107-21-1)	
EC50 - Other aquatic organisms [1] > 100 mg/l waterflea EC50 - Other aquatic organisms [2] 6500 mg/l sel de sodium de l'acide ethylènediamine tétructet(ue (64-02-8)) EC50 - Crustacea [1] LC50 - Fish [1] > 121 mg/l EC50 - Other aquatic organisms [2] 2.77 mg/l LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2 5.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NoEC chronic fish 2 5.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NoEC chronic fish 2 5.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NoE chronic fish 2 6.7 - 3.46 mg/l EC50 - Crust	LC50 - Fish [1]	> 10000 mg/l
EC50 - Other aquatic organisms [2] 6500 mg/l sel de sodium de l'acide ethylènediamine tétracétique (64-02-8) LC50 - Fish [1] > 121 mg/l EC50 - Other aquatic organisms [1] 625 mg/l waterflea EC50 - Other aquatic organisms [2] 2.77 mg/l EC50 - Chronic O 60 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.57.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.67 - 3.46 mg/l LC50 - Fish [1] 2.67 - 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l 12.2. 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. 12.3. B	EC50 - Crustacea [1]	> 10000 mg/l
sel de sodium de l'acide ethylènediamine tétraacétique (64-02-8) LCS0 - Fish [1] > 121 mg/l ECS0 - Crustacea [1] 140 mg/l Test organisms (species): Daphnia magna ECS0 - Other aquatic organisms [2] 2.77 mg/l ECS0 - Chronic organisms [2] 2.77 mg/l LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 25.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2.67 - 3.46 mg/l LCS0 - Fish [1] 2.67 - 3.46 mg/l ECS0 - Crustacea [1] 3.1 mg/l 12.2. 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. 12.3. Bioaccumulative potential Not established. Ethanediol (107-21-1) 1.4 Partition coefficient n-octanol/water (Log Pow) -1.4 <td>EC50 - Other aquatic organisms [1]</td> <td>> 100 mg/l waterflea</td>	EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea
LCS0 - Fish [1] > 121 mg/l ECS0 - Crustacea [1] 140 mg/l Test organisms (species): Daphnia magna ECS0 - Other aquatic organisms [2] 2.77 mg/l ECS0 72h - Algae [1] > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' Neccoamidopropyl dimethylamine oxide (68155-09-9) LCS0 - Fish [1] LCS0 - Fish [1] 2.67 - 3.46 mg/l ECS0 - Crustacea [1] 3.1 mg/l 122. 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. 12.3. Bioaccumulative potential Not established. Ethanediol (107-21-1) 1.4 Partition coefficient n-octanol/water (Log Pow) 1.4 sel de sodium de l'acide ethylènediamine tétra-cétique (64-02-8) 1.4	EC50 - Other aquatic organisms [2]	6500 mg/l
C50 - Crustacea [1] 140 mg/l Test organisms (species): Daphnia magna EC50 - Crustacea [1] 625 mg/l waterflea EC50 - Other aquatic organisms [2] 2.77 mg/l EC50 - Crustacea [1] > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish > 25.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish > 25.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d' Noccoamidopropyl dimethylamine oxide (68155-09-9) LC50 - Fish [1] LC50 - Fish [1] 2.67 - 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l 122. 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. 123. Bioaccumulative potential Mot established. Ethanediol (107-21-1) 1.4 Partition coefficient n-oct	sel de sodium de l'acide ethylènediamine tétr	aacétique (64-02-8)
EC50 - Other aquatic organisms [1] 625 mg/l waterflea EC50 - Other aquatic organisms [2] 2.77 mg/l EC50 72h - Algae [1] > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricomutum) LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (68155-09-9) 1000000000000000000000000000000000000	LC50 - Fish [1]	> 121 mg/l
EC50 - Other aquatic organisms [2] 2.77 mg/l EC50 72h - Algae [1] > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricomutum) LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 2 52.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (68155-09-9) 1000000000000000000000000000000000000	EC50 - Crustacea [1]	140 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1] > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelli subcapitata, Selenastrum capricomutum) LOEC (chronic) 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 25 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (681-5-09-9) 1000000000000000000000000000000000000	EC50 - Other aquatic organisms [1]	625 mg/l waterflea
Raphidocelis subcapitata, Selenastrum capricornutum)LOEC (chronic)50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'NOEC (chronic)25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'NOEC chronic fish25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'N-cocoamidopropyl dimethylamine oxide (68155-09-9)1000000000000000000000000000000000000	EC50 - Other aquatic organisms [2]	2.77 mg/l
NOEC (chronic) 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish ≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (68155-09-9) LC50 - Fish [1] 2.67 - 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l Immon (Second Herrich President) 12.2. 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. 12.3. Bioaccumulative potential Not established. TECHNO DIS Immon (EC) No.648/2004 on detergents. 12.4 Immon (EC) No.648/2004 on detergents. 12.5.8 Immon (EC) No.648/2004 on detergents. 12.3.8 Immon (EC) No.648/2004 on detergents. 13.1 Immon (EC) No.648/2004 on detergents. 14.3 Immon (EC) No.648/2004 on detergents. 15.3 Immon (EC) No.648/2004 on detergents. 16.4 Immon (EC) No.648/2004 on detergents. <td>EC50 72h - Algae [1]</td> <td></td>	EC50 72h - Algae [1]	
NOEC chronic fish ≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (68155-09-9) LC50 - Fish [1] 2.67 – 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l 12.2. Persistence and degradability TECHNO DIS 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. 12.3. Bioaccumulative potential TECHNO DIS Bioaccumulative potential TECHNO DIS Bioaccumulative potential Techno DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) 1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Duration: '35 d' N-cocoamidopropyl dimethylamine oxide (68155-09-9) LC50 - Fish [1] 2.67 – 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l 12.2. Persistence and degradability TECHNO DIS 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. 12.3. Bioaccumulative potential TECHNO DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LC50 - Fish [1] 2.67 – 3.46 mg/l EC50 - Crustacea [1] 3.1 mg/l 12.2. Persistence and degradability TECHNO DIS Persistence and degradability TECHNO DIS 12.3. Bioaccumulative potential TECHNO DIS IECHNO DIS IECHNO DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) 1.4	NOEC chronic fish	
EC50 - Crustacea [1] 3.1 mg/l 12.2. Persistence and degradability Image: Comparison of the surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. 12.3. Bioaccumulative potential Image: Comparison of the surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. 12.3. Bioaccumulative potential Image: Comparison of the surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. 12.3. Bioaccumulative potential Image: Comparison of the surfactant(s) contained in the surfactant(s) contained in the surfactant (EC) No.648/2004 on detergents. 12.3. Bioaccumulative potential Image: Not established. Ethanediol (107-21-1) Image: Not established. Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	N-cocoamidopropyl dimethylamine oxide (687	155-09-9)
12.2. Persistence and degradability TECHNO DIS 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. 12.3. Bioaccumulative potential Techno DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétrazétique (64-02-8)	LC50 - Fish [1]	2.67 – 3.46 mg/l
TECHNO DIS 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. 12.3. Bioaccumulative potential Techno DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) 11.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	EC50 - Crustacea [1]	3.1 mg/l
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. 12.3. Bioaccumulative potential TECHNO DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Not established. Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	12.2. Persistence and degradability	
criteria as laid down in Regulation (EC) No.648/2004 on detergents. 12.3. Bioaccumulative potential TECHNO DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	TECHNO DIS	
TECHNO DIS Bioaccumulative potential Not established. Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	Persistence and degradability	
Bioaccumulative potential Not established. Ethanediol (107-21-1) -1.4 Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétracétique (64-02-8)	12.3. Bioaccumulative potential	
Ethanediol (107-21-1) Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétraacétique (64-02-8)	TECHNO DIS	
Partition coefficient n-octanol/water (Log Pow) -1.4 sel de sodium de l'acide ethylènediamine tétraacétique (64-02-8)	Bioaccumulative potential	Not established.
sel de sodium de l'acide ethylènediamine tétraacétique (64-02-8)	Ethanediol (107-21-1)	
	Partition coefficient n-octanol/water (Log Pow)	-1.4
Partition coefficient n-octanol/water (Log Pow) -0.43	sel de sodium de l'acide ethylènediamine tétr	aacétique (64-02-8)
	Partition coefficient n-octanol/water (Log Pow)	-0.43

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12.4. Mobility in soil	
No additional information available	
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	
Additional information	: Avoid release to the environment.

SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
Waste treatment methods	: Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.
Product/Packaging disposal recommendations Ecology - waste materials	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber		1	
UN 1814	UN 1814	UN 1814	UN 1814	UN 1814
14.2. UN proper shippin	g name			
POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDI SOLUTION
Transport document descr	iption		1	
UN 1814 POTASSIUM HYDROXIDE SOLUTION (Potassium hydroxide), 8, III, (E)	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III	UN 1814 Potassium hydroxide solution, 8, III	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III	UN 1814 POTASSIUM HYDROXIDE SOLUTION 8, III
14.3. Transport hazard o	class(es)			
8	8	8	8	8
B	B	B	B	B
14.4. Packing group			<u> </u>	
III	III	III	III	III
14.5. Environmental haz	zards		1	
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

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14.6. Special precautions for user

Special transport precautions

: Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport

Overland transport		
Classification code (ADR)	:	C5
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T4
Portable tank and bulk container special provisions	:	TP1
(ADR)		
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 1814
Tunnel restriction code (ADR)	:	E

Transport by sea

Special provisions (IMDG) : 223	
Limited quantities (IMDG) : 5 L	
Excepted quantities (IMDG) : E1	
Packing instructions (IMDG) : P001, LP01	
IBC packing instructions (IMDG) : IBC03	
Tank instructions (IMDG) : T4	
Tank special provisions (IMDG) : TP1	
EmS-No. (Fire) : F-A	
EmS-No. (Spillage) : S-B	
Stowage category (IMDG) : A	
Segregation (IMDG) : SG35	
Properties and observations (IMDG) : Colourless liquid. Reacts with ammonium salts, evolving ammonia gas. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous	۱

membranes. Reacts violently with acids.

Air transport

PCA Excepted quantities (IATA)	:	E1
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
ERG code (IATA)	:	8L
Inland waterway transport		
Classification code (ADN)	:	C5
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
Rail transport		

Classification code (RID)

: C5

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Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions	:	5L E1 P001, IBC03, LP01, R001 MP19 T4 TP1
(RID) Tank codes for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	:	L4BN 3 W12 CE8 80

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

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Detergent Regulation (648/2004)

Labelling of contents		
Component	%	
EDTA and salts thereof, amphoteric surfactants	<5%	

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

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15.1.2. National regulations

France

Occupational diseases		
Code	Description	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources

 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
 None.

Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
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]: Skin Corr. 1A H314 Eye Dam. 1 H318

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.