Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **01244**
Product name **DURIZEN 9 FE-MS**

UFI : **TM60-W0T7-400J-KXY1**

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

Intended use **Degreaser for metal working**

Identified Uses	Industrial	Professional	Consumer
Use as degreasing	✓	-	-
SU 3	✓	-	-

Uses Advised Against
All those not expressly identified on the label

1.3. Details of the supplier of the safety data sheet

Name **E-CHEM S.R.L.**
Full address **Via della Ricerca 1**
District and Country **31032 Casale sul Sile (TV)**
Italia
Tel. +39 0422 785502
Fax +39 0422 785959

e-mail address of the competent person responsible for the Safety Data Sheet **labechem@dbmtecnologie.com**

1.4. Emergency telephone number

For urgent inquiries refer to

Country: Italy
Organization: Istituto Superiore di Sanità, National Center for Chemicals
Address: Viale Regina Elena, 299 I-00161 ROMA
Tel: +39 0649906140 and +39 0649902064

Country: Poland
Organization: Department for Dangerous Substances and Preparations/Bureau for Chemical Substances and Preparations
Address: Dowborczykow Street 30/34 90-019 Lodz
Phone: +48 42 25 38 400, Fax: +48 42 25 38 444

Country: France
Organization: Centre antipoison et de toxicovigilance de Nancy
Address: Hôpital Central 29 avenue du Maréchal de Lattre de Tassigny 54035 Nancy Cedex
Tel : +33 3 83 22 50 50

Country: Spain
Organization: Instituto Nacional de Toxicología y Ciencias Forenses
Address: Calle José Echegaray, 4 28032 Las Rozas de Madrid, Madrid
Tel: +34 917689800

Country: Ireland
Organization: Beaumont Hospital - National Poisons Information Centre
Address: Beaumont Road, Dublin 9
Tel: +353 1 8092566

Country: Romania
Organization: Birou RSI si Informare Toxicologica din cadrul INSP
Address: Str. D. Leonte Nr.1-3
Tel: +40 21 318 36 06 (interval orar 8.00-16.00)

Country: Slovenia

Organization: Chemicals Office (CORS), Ministry of Health
Address: Ajdovščina 4, SI - 1000 Ljubljana
Tel: +386 1 400 60 51, Fax: +386 1 400 62 66

Country: Slovakia
Organization: National toxicological information centre
Address: University Hospital Bratislava Department of Occupational Medicine and Toxicology, Limbova 5, 833 05 Bratislava
Tel: + 421 2 5465 2307

Country: The Netherlands
Organization: National Poisons Information Center
Address: University Medical Center (UMC) Utrecht, Heidelberglaan 100, 3584 CX Utrecht NL
Tel: 0031 (0) 88 75 555 55

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapours / spray.
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): Take off immediately all contaminated clothing. Rinse skin with water/ take a shower.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P310	Immediately call a POISON CENTER or a doctor.
P264	Wash the skin thoroughly after handling.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P362+P364	Take off contaminated clothing and wash it before reuse.
P273	Avoid release to the environment.

Contains: CAPRYLIC ACID
2-AMINOETHANOL
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

SECTION 2. Hazards identification ... / >>

ALCOHOLS, C10-12, ETHOXYLATES, PROPOSSILATES
POLYETHYLENIMINE

Ingredients according to Regulation (EC) No. 648/2004

Less than 5%	EDTA (ethylenediaminetetraacetic acid) sodium salt
5% or over but less than 15%	anionic surfactants, non-ionic surfactants

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
2,2',2''-NITRILOTRITHANOL			
INDEX		7 ≤ x < 9	**Substance with a community workplace exposure limit.**
EC	*203-049-8*		
CAS	*102-71-6*		
REACH Reg.	*01-2119486482-31*		
CAPRYLIC ACID			
INDEX		5 ≤ x < 7	**Skin Corr. 1A H314, Eye Dam. 1 H318**
EC	*204-677-5*		
CAS	*124-07-2*		
REACH Reg.	*01-2119552491-41*		
2-AMINOETHANOL			
INDEX	*603-030-00-8*	3 ≤ x < 5	**Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1A H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Chronic 3 H412**
EC	*205-483-3*		**LD50 Oral: 1515 mg/kg, LD50 Dermal: 1000 mg/kg, STA Inhalation vapours: 11 mg/l**
CAS	*141-43-5*		
REACH Reg.	*01-2119486455-28*		
ALCOHOLS, C10-12, ETHOXYLATES, PROPOSSILATES			
INDEX		3 ≤ x < 5	**Acute Tox. 4 H302, Eye Dam. 1 H318**
EC	*940-634-3*		**LD50 Oral: >300 mg/kg**
CAS	*68154-97-2*		
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE			
INDEX	*607-428-00-2*	3 ≤ x < 5	**Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318**
EC	*200-573-9*		**LD50 Oral: >1780 mg/kg, STA Inhalation mists/powders: 1,5 mg/l**
CAS	*64-02-8*		
REACH Reg.	*01-2119486762-27*		
POLYETHYLENIMINE			
INDEX		1 ≤ x < 2,5	**Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 2 H411**
EC	*618-346-1*		**LD50 Oral: >300 mg/kg**
CAS	*9002-98-6*		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

2,2',2''-NITRILOTRIETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	5				ACGIH 2011

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,32	mg/l
Normal value in marine water	0,032	mg/l
Normal value for fresh water sediment	1,7	mg/kg
Normal value for marine water sediment	0,17	mg/kg
Normal value for water, intermittent release	5,12	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,151	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	13 mg/kg bw/d				
Inhalation			VND	1,24 mg/m3			VND	5 mg/m3
Skin			VND	3,1 mg/kg bw/d			VND	6,3 mg/kg bw/d

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

CAPRYLIC ACID

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,007	mg/l
Normal value in marine water	0,0007	mg/l
Normal value for fresh water sediment	0,0739	mg/kg
Normal value for marine water sediment	0,00739	mg/kg
Normal value for water, intermittent release	0,22	mg/l
Normal value of STP microorganisms	912	mg/l
Normal value for the food chain (secondary poisoning)	66,66	mg/kg
Normal value for the terrestrial compartment	0,0107	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	2,5 mg/kg bw/d				
Inhalation			VND	4,348 mg/m3			VND	17,632 mg/m3
Skin			VND	5 mg/kg bw/d			VND	10 mg/kg bw/d

2-AMINOETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	2,5	1	7,6	3	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,08	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	0,42	mg/kg
Normal value for marine water sediment	0,04	mg/kg
Normal value for water, intermittent release	0,02	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,03	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	3,75 mg/kg bw/d				
Inhalation			2 mg/m3	VND			3,3 mg/m3	VND
Skin			VND	0,24 mg/kg bw/d			VND	1 mg/kg bw/d

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,2	mg/l
Normal value in marine water	0,22	mg/l
Normal value for fresh water sediment	0,72	mg/kg
Normal value for marine water sediment	0,364	mg/kg
Normal value for water, intermittent release	1,2	mg/l
Normal value of STP microorganisms	43	mg/l
Normal value for the food chain (secondary poisoning)	0,2	mg/kg
Normal value for the terrestrial compartment	0,182	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	25 mg/kg bw/d				
Inhalation	1.5 mg/m3	VND	1.5 mg/m3	VND	2.5 mg/m3	VND	2.5 mg/m3	VND

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
SKIN PROTECTION
Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
EYE PROTECTION
Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).
RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.
Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		liquid		
Colour		straw yellow		
Odour		characteristic		
Melting point / freezing point	<	0	°C	
Initial boiling point	>	100	°C	
Flammability		not available		
Lower explosive limit		not available		
Upper explosive limit		not available		
Flash point		not available		
Auto-ignition temperature		not available		
Decomposition temperature		not available		
pH		9,6		Concentration: 1 %
Kinematic viscosity		not available		
Solubility		soluble in water		
Partition coefficient: n-octanol/water		not available		
Vapour pressure		not available		
Density and/or relative density		1,03	g/cm3	
Relative vapour density		not available		
Particle characteristics		not applicable		

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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

VOC NO

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

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

10.5. Incompatible materials

POLYETHYLENIMINE
Avoid contact with: strong acids,strong bases,oxidising agents,strong oxidising agents,reactive chemicals,hydro-reactive substances.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

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

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

2,2',2''-NITRILOTRIETHANOL

LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	6400 mg/kg Rat

CAPRYLIC ACID

LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation vapours):	> 0,16 mg/l/4h Rat

SECTION 11. Toxicological information ... / >>

2-AMINOETHANOL

LD50 (Dermal):	1000 mg/kg Rat
LD50 (Oral):	1515 mg/kg Rat; OECD TG 401
LC50 (Inhalation vapours):	1,48 mg/l/4h Rat
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

LD50 (Oral):	> 1780 mg/kg rat; OECD 403
LC50 (Inhalation mists/powders):	> 1000 mg/m3/6h rat
STA (Inhalation mists/powders):	1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

ALCOHOLS, C10-12, ETHOXYLATED, PROPOXYLATED

LD50 (Oral):	> 300 mg/kg Ratto

POLYETHYLENIMINE

LD50 (Oral):	> 300 mg/kg Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

2-AMINOETHANOL

LC50 - for Fish	170 mg/l/96h Carassius auratus (Pesciolino rosso)
EC50 - for Crustacea	65 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	22 mg/l/72h Pseudokirchneriella subcapitata; Metodo di prova, direttiva 92/69/CE

SECTION 12. Ecological information ... / >>

Chronic NOEC for Fish	1,2 mg/l 30gg; Oryziass latipes (Cipriniformi arancione-rosso)

2,2',2''-NITRILOTRIETHANOL

LC50 - for Fish	11800 mg/l/96h Pimephales
EC50 - for Crustacea	609,88 mg/l/48h Daphnia - Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants	512 mg/l/72h Scenedesmus subspicatus

CAPRYLIC ACID

EC50 - for Crustacea	550 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	31 mg/l/72h Pseudokirchneriella subcapitata

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

LC50 - for Fish	> 100 mg/l/96h Lepomis Macrochirus (EPA-Guideline OPP 72-1)
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna (DIN 38412/PART11)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesms obliquus (Direttiva 88/302/EEC)
Chronic NOEC for Fish	36,9 mg/l 35 d; OCDE 210
Chronic NOEC for Crustacea	25 mg/l 21 d; Daphnia magna; OECD 211

ALCOHOLS, C10-12, ETHOXYLATED, PROPOXYLATED

LC50 - for Fish	> 1 mg/l/96h Danio rerio; OECD 203
EC50 - for Crustacea	> 1 mg/l/48h Daphnia magna; OECD TG 202
EC50 - for Algae / Aquatic Plants	> 1 mg/l/72h Selenastrum capricornutum
Chronic NOEC for Algae / Aquatic Plants	1,7 mg/l/72h Selenastrum capricornutum

POLYETHYLENIMINE

LC50 - for Fish	> 1 mg/l/96h Leuciscus idus

12.2. Persistence and degradability

2-AMINOETHANOL
Rapidly degradable — > 90%; 21 d

2,2',2''-NITRILOTRIETHANOL
Rapidly degradable

CAPRYLIC ACID
Rapidly degradable — > 72%; 30 d; BCF 234-288; Read across

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE
NOT rapidly degradable

ALCOHOLS, C10-12, ETHOXYLATED, PROPOXYLATED
Rapidly degradable — > 60%; 28 d; aerobico; OECD TG 301 B

POLYETHYLENIMINE
NOT rapidly degradable

12.3. Bioaccumulative potential

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE
BCF — 18 (28d) Lepomis macrochirus

12.4. Mobility in soil

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE
Partition coefficient: soil/water — -13

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

SECTION 12. Ecological information ... / >>

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1760

14.2. UN proper shipping name

ADR / RID:	CORROSIVE LIQUID, N.O.S. (Octanoic acid, Ethanolamine)
IMDG:	CORROSIVE LIQUID, N.O.S. (Octanoic acid, Ethanolamine)
IATA:	CORROSIVE LIQUID, N.O.S. (Octanoic acid, Ethanolamine)

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8	
IMDG:	Class: 8	Label: 8	
IATA:	Class: 8	Label: 8	

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special provision: 274	Limited Quantities: 1 L	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo: Pass.: Special provision:	Maximum quantity: 30 L Maximum quantity: 1 L A3, A803	Packaging instructions: 855 Packaging instructions: 851

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Product
Point 3
Contained substance
Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Regulation (EC) No. 648/2004
Ingredients according to Regulation (EC) No. 648/2004

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.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A
Eye Dam. 1	Serious eye damage, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

SECTION 16. Other information ... / >>

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.

SECTION 16. Other information ... / >>

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:
The following sections were modified:
01 / 09 / 14 / 16.