

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: TEA 85% Issue date: 5/26/2020 Revision date: 3/28/2022 Supersedes version of: 5/26/2020 Version: 4.1

SECTION 1: Identification of the substance/mixed	ture and of the company/undertaking
1.1. Product identifier	
Product form Product name Product code	: Mixture : TRIETHANOLAMINE 85 % : TEA 85%
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture	: chimic
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the safety da	ta sheet
INTERCHIMIE ZAC du Parc 13 rue Louis Blériot FR- 77290 COMPANS T T: +33 (0)1 64 77 76 27 gualite@interchimie.fr - www.interchimie.fr	
1.4. Emergency telephone number	
No additional information available	
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	ture
Classification according to Regulation (EC) No.	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity — Repeated exposure	e, Category 2 H373
Full text of H- and EUH-statements: see section 16	
Adverse physicochemical, human health and er	
	repeated exposure. Causes skin irritation. Causes serious eye damage.
2.2. Label elements	
Labelling according to Regulation (EC) No. 1272 Hazard pictograms (CLP)	
Signal word (CLP) Contains Hazard statements (CLP)	GHS05 GHS08 : Danger : 2,2'-iminodiethanol : H315 - Causes skin irritation.
	H318 - Causes serious eye damage.

Precautionary statements (CLP)

contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water.

H373 - May cause damage to organs through prolonged or repeated exposure.

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

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accordance with local, regional, national and/or international regulation.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2.3. Other hazards

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

Component	
2,2',2"-nitrilotriethanol (102-71-6)	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
2,2'-iminodiethanol (111-42-2)	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]
2,2',2"-nitrilotriethanol	CAS-No.: 102-71-6 EC-No.: 203-049-8 REACH-no: 01-2119486482- 31	≥ 85	Not classified
2,2'-iminodiethanol	CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1 REACH-no: 01-2119488930- 28	≤ 15	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Dam. 1, H318

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

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Get medical advice/attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. 	
First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Call a poison center or a doctor if you feel unwell. Drink plenty of water. 	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Irritation. Serious damage to eyes. Abdominal pain, nausea. Vomiting. 	

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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 Unsuitable extinguishing media	Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.	
5.2. Special hazards arising from the subs	tance or mixture	
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO2). Nitrogen oxides.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up	
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	 Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. 	
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.	
7.3. Specific end use(s)		
No additional information available		

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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
8.1.1 National occupational exposure and biological limit values No additional information available		
8.1.2. Recommended monitoring procedures No additional information available		
8.1.3. Air contaminants formed No additional information available		
8.1.4. DNEL and PNEC		
TRIETHANOLAMINE 85 %		
DNEL/DMEL (additional information)		
Additional information	DNEL and/or PNEC available for the componants	
PNEC (additional information)		
Additional information	DNEL and/or PNEC available for the componants	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Face shield. EN 166

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and che	mical properties	
Physical state	: Liquid	
Colour	: Colourless.	
Odour	: Ammonia.	
Odour threshold	: Not available	
Melting point	: 15.8 °C	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not applicable	
Explosive limits	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: 190.5 °C (method Cleveland in open cup)	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: Not available	
Viscosity, kinematic	: Not available	
Solubility	: Not available	
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	: Not available	
Relative vapour density at 20 °C	: 1.126	
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

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Heat.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Nitrogen.

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SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 	
TRIETHANOLAMINE 85 %		
LD50 oral rat	3333.333 mg/kg	
2,2',2"-nitrilotriethanol (102-71-6)		
LD50 oral rat	7200 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
2,2'-iminodiethanol (111-42-2)		
LD50 oral rat	1600 mg/kg	
LD50 dermal rat	12970 mg/kg	
LC50 Inhalation - Rat	0.2 mg/l CL0 (8h)	
Skin corrosion/irritation Serious eye damage/irritation	: Causes skin irritation. : Causes serious eye damage.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity Reproductive toxicity	: Not classified : Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.	
2,2'-iminodiethanol (111-42-2)		
NOAEL (dermal, rat/rabbit, 90 days)	32 mg/kg bodyweight/day rat 103 semaines	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
11.2. Information on other hazards		

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	 The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified
(chronic) 2,2',2"-nitrilotriethanol (102-71-6)	
2,2,2 -1101100100101101 (102-71-0)	
LC50 - Fish [1]	1460 (450 – 7900) mg/l 96h
EC50 - Crustacea [1]	> 2500 mg/l 48h
EC50 72h - Algae [1]	216 mg/l 72h
2,2'-iminodiethanol (111-42-2)	
LC50 - Fish [1]	1460 mg/l 96h - pimephales promelas
EC50 - Crustacea [1]	55 mg/l 48h

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2,2'-iminodiethanol (111-42-2)			
EC50 72h - Algae [1]	9.5 mg/l Pseudokirchneriella subcapitata		
LOEC (acute)	1.56 mg/l 504h - Daphnia magna		
NOEC chronic crustacea	0.78 mg/l 504h - Daphnia magna		
12.2. Persistence and degradability			
2,2',2"-nitrilotriethanol (102-71-6)			
Biodegradation	97 % 28j		
2,2'-iminodiethanol (111-42-2)			
Persistence and degradability	Readily biodegradable.		
Chemical oxygen demand (COD)	1.352 g O ₂ /g substance		
Biodegradation	93 % 28 j - OECD 301F		
12.3. Bioaccumulative potential			
2,2',2"-nitrilotriethanol (102-71-6)			
BCF - Fish [1]	< 0.4 Cyprinus carpio OECD 305C		
Partition coefficient n-octanol/water (Log Pow)	-2.3		
2,2'-iminodiethanol (111-42-2)			
Partition coefficient n-octanol/water (Log Kow)	-2.18		
12.4. Mobility in soil			
2,2',2"-nitrilotriethanol (102-71-6)			
Mobility in soil	soluble in water		
Surface tension	48.8 mN/m 25°C		
12.5. Results of PBT and vPvB assessment			
TRIETHANOLAMINE 85 %			
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			
	Dispose of contents/container in accordance with licensed collector's sorting instructions.		

SECTION 14: Transport information

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

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name		-	,
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	lass(es)		<u>.</u>	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
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
No supplementary informatio	n available	1	1	1

14.6. Special precautions for user

Overland transport No data available

Transport by sea

No data available

Air transport No data available

Inland waterway transport No data available

Rail transport

No data available

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

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.

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.

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 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines	
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine	

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1) Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) Netherlands : SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Switzerland : LK 6.1 - Toxic materials			
Netherlands SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Vruchtbaarheid : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	Water hazard class (WGK)	:	WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed Vruchtbaarheid : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Switzerland : LK 6.1 - Toxic materials	Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed Vruchtbaarheid : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	Netherlands		
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed Vruchtbaarheid : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – : None of the components are listed Vruchtbaarheid : None of the components are listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : None of the components are listed Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	SZW-lijst van mutagene stoffen	:	None of the components are listed
Vruchbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed Denmark : Young people below the age of 18 years are not allowed to use the product Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Switzerland : LK 6.1 - Toxic materials	SZW-lijst van reprotoxische stoffen –	:	None of the components are listed
Denmark Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland : LK 6.1 - Toxic materials	Vruchtbaarheid		
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland Storage class (LK) : LK 6.1 - Toxic materials	SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed
Pregnant/breastfeeding women working with the product must not be in direct contact with the product Switzerland Storage class (LK) : LK 6.1 - Toxic materials	Denmark		
Switzerland Storage class (LK) : LK 6.1 - Toxic materials	Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product
Switzerland Storage class (LK) : LK 6.1 - Toxic materials			Pregnant/breastfeeding women working with the product must not be in direct contact with
Storage class (LK) : LK 6.1 - Toxic materials			the product
5 ()	Switzerland		
	Storage class (LK)	:	LK 6.1 - Toxic materials

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	
	Supersedes version of	Modified		
	Revision date	Modified		
	Regulatory framework	Added		
1.1	Name	Modified		

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	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	

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Abbreviations and acronyms:		
EN	European Standard	
ΙΑΤΑ	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	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Data sources

: This MSDS has been established with data of MSDS coming from upstream suppliers.

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	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H373	May cause damage to organs through prolonged or repeated exposure.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	

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.