

Safety Data Sheet ENEA0365

Issue date: 09/12/2014 Revision date: 12/10/2022 Version: 1.2

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

1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : ALLYLOXY(POLYETHYLENE OXIDE), METHYL ETHER (10-15 EO)

Product code : ENEA0365

Synonyms : ALLYL ALCOHOL ETHOXYLATE, METHYL ETHER

Chemical family : POLYETHER

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P330 - Rinse mouth.

P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.

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P501 - Dispose of contents/container to licensed waste disposal facility...

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Multi-constituent

Name : ALLYLOXY(POLYETHYLENE OXIDE), METHYL ETHER (10-15 EO)

CAS-No. : 27252-80-8 EC-No. : 608-068-9

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Allyloxy(polyethylene oxide), methyl ether	(CAS-No.) 27252-80-8 (EC-No.) 608-068-9	> 97	Acute Tox. 4 (Oral), H302
Allyl alcohol	(EC-No.) 608-068-9 (CAS-No.) 107-18-6 (EC-No.) 203-470-7 (EC Index-No.) 603-015-00-6		Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

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

advice.

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

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation : No information available.

Symptoms/effects after skin contact : May cause skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapour and mist.

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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 : Equip cleanup crew with proper protection.

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 : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in

process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. May freeze if stored <15°C.

Incompatible materials : Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Allyl alcohol (107-18-6)			
EU	IOEL TWA	4.8 mg/m³	
EU	IOEL TWA [ppm]	2 ppm	
EU	IOEL STEL	12.1 mg/m³	
EU	IOEL STEL [ppm]	5 ppm	
Austria	MAK (OEL TWA)	4.8 mg/m³	
Austria	MAK (OEL TWA) [ppm]	2 ppm	
Austria	MAK (OEL STEL)	12 mg/m³	
Austria	MAK (OEL STEL) [ppm]	5 ppm	
Belgium	OEL TWA	4.8 mg/m³	
Belgium	OEL TWA [ppm]	2 ppm	
Belgium	OEL STEL	9.6 mg/m³	
Belgium	OEL STEL [ppm]	4 ppm	
Bulgaria	OEL TWA	4.8 mg/m³	
Bulgaria	OEL TWA [ppm]	2 ppm	
Bulgaria	OEL STEL	12.1 mg/m³	
Bulgaria	OEL STEL [ppm]	5 ppm	
Cyprus	OEL TWA	4.8 mg/m³	
Cyprus	OEL TWA [ppm]	2 ppm	
Cyprus	OEL STEL	12.1 mg/m³	
Cyprus	OEL STEL [ppm]	5 ppm	
France	VLE (OEL C/STEL)	4.8 mg/m³ (indicative limit)	
France	VLE (OEL C/STEL) [ppm]	2 ppm (indicative limit)	
France	VME (OEL TWA)	0.48 mg/m³ (indicative limit)	
France	VME (OEL TWA) [ppm]	0.2 ppm (indicative limit)	
Germany	AGW (OEL TWA) [1]	4.8 mg/m³	
Germany	AGW (OEL TWA) [2]	2 ppm	
Gibraltar	OEL TWA	4.8 mg/m³	
Gibraltar	OEL TWA [ppm]	2 ppm	

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Allyl alcohol (107-18-6)		
Gibraltar	OEL STEL	12.1 mg/m³
Gibraltar	OEL STEL [ppm]	5 ppm
Greece	OEL TWA	5 mg/m ³
Greece	OEL TWA [ppm]	2 ppm
Greece	OEL STEL	10 mg/m³
Greece	OEL STEL [ppm]	4 ppm
Italy - Portugal - USA ACGIH	ACGIH OEL TWA [ppm]	0.5 ppm
Italy	OEL TWA	4.8 mg/m³
Italy	OEL TWA [ppm]	2 ppm
Italy	OEL STEL	12.1 mg/m³
Italy	OEL STEL [ppm]	5 ppm
Latvia	OEL TWA	4.8 mg/m³
Latvia	OEL TWA [ppm]	2 ppm
USA IDLH	IDLH [ppm]	20 ppm
USA NIOSH	NIOSH REL TWA	5 mg/m³
USA NIOSH	NIOSH REL TWA [ppm]	2 ppm
USA NIOSH	NIOSH REL STEL	10 mg/m³
USA NIOSH	NIOSH REL STEL [ppm]	4 ppm
USA OSHA	OSHA PEL TWA [1]	5 mg/m³
USA OSHA	OSHA PEL TWA [2]	2 ppm
Spain	VLA-ED (OEL TWA) [1]	5 mg/m³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	2 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	12 mg/m³
Spain	VLA-EC (OEL STEL) [ppm]	5 ppm
Switzerland	KZGW (OEL STEL)	10 mg/m³
Switzerland	KZGW (OEL STEL) [ppm]	4 ppm
Switzerland	MAK (OEL TWA) [1]	5 mg/m³
Switzerland	MAK (OEL TWA) [2]	2 ppm
Netherlands	TGG-8u (OEL TWA)	4.8 mg/m ³
Netherlands	TGG-15min (OEL STEL)	12.1 mg/m³
United Kingdom	WEL TWA (OEL TWA) [1]	4.8 mg/m³
United Kingdom	WEL TWA (OEL TWA) [2]	2 ppm
United Kingdom	WEL STEL (OEL STEL)	9.7 mg/m³
United Kingdom	WEL STEL (OEL STEL) [ppm]	4 ppm
Czech Republic	PEL (OEL TWA)	4 mg/m³
Denmark	OEL TWA [1]	4.8 mg/m³
Denmark Finland	OEL TWA [2]	2 ppm
	HTP (OEL TWA) [2]	1.2 mg/m³
Finland Finland	HTP (OEL TWA) [2] HTP (OEL STEL)	0.5 ppm 4.8 mg/m³
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Finland	HTP (OEL STEL) [ppm] AK (OEL TWA)	2 ppm 4.8 mg/m³
Hungary	CK (OEL STEL)	12.1 mg/m³
Hungary Ireland	OEL TWA [1]	4.8 mg/m³
Ireland	OEL TWA [1]	
Ireland	OEL TWA [2] OEL STEL	2 ppm 12.1 mg/m³
Ireland	OEL STEL [ppm]	5 ppm
Lithuania	IPRV (OEL TWA)	4.8 mg/m³
Lithuania	IPRV (OEL TWA) IPRV (OEL TWA) [ppm]	2 ppm
Lithuania	TPRV (OEL STEL)	2 ppm 12.1 mg/m³
Lithuania	TPRV (OEL STEL) TPRV (OEL STEL) [ppm]	5 ppm
Littiuatiia	ΤΙ ΤΑΥ (ΟΕΕ ΟΤΕΕ) [ΡΡΙΙΙ]	o phill

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Allyl alcohol (107-18-6)		
Malta	OEL TWA	4.8 mg/m³
Malta	OEL TWA [ppm]	2 ppm
Malta	OEL STEL	12.1 mg/m³
Malta	OEL STEL [ppm]	5 ppm
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m³
Norway	Grenseverdi (OEL TWA) [2]	2 ppm
Norway	Korttidsverdi (OEL STEL)	5 mg/m³
Norway	Korttidsverdi (OEL STEL) [ppm]	2 ppm
Poland	NDS (OEL TWA)	2 mg/m³
Poland	NDSCh (OEL STEL)	10 mg/m³
Romania	OEL TWA	4.8 mg/m³
Romania	OEL TWA [ppm]	2 ppm
Romania	OEL STEL	12.1 mg/m³
Romania	OEL STEL [ppm]	5 ppm
Slovakia	NPHV (OEL TWA) [1]	4.8 mg/m³
Slovakia	NPHV (OEL TWA) [2]	2 ppm
Slovakia	NPHV (OEL C)	12.1 mg/m³
Sweden	NGV (OEL TWA)	5 mg/m³
Sweden	NGV (OEL TWA) [ppm]	2 ppm
Sweden	KTV (OEL STEL)	14 mg/m³
Sweden	KTV (OEL STEL) [ppm]	6 ppm
Canada (Quebec)	VECD (OEL STEL)	9.5 mg/m³
Canada (Quebec)	VECD (OEL STEL) [ppm]	4 ppm
Canada (Quebec)	VEMP (OEL TWA)	4.8 mg/m³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	2 ppm
Australia	OES TWA [1]	4.8 mg/m³
Australia	OES TWA [2]	2 ppm
Australia	OES STEL	9.5 mg/m³
Australia	OES STEL [ppm]	4 ppm
Portugal	OEL TWA	4.8 mg/m³ (indicative limit value)
Portugal	OEL TWA [ppm]	2 ppm (indicative limit value)
Portugal	OEL STEL	21.1 mg/m³ (indicative limit value)
Portugal	OEL STEL [ppm]	5 ppm (indicative limit value)
Portugal	OEL chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear liquid. Viscous.

Molecular mass : ~ 550 g/mol

Colour : Pale yellow.

Odour : No data available

Odour threshold : No data available

Refractive index : 1.457

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : <15 °C

Boiling point : > 205 °C
Flash point : 136 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability : No data available

Vapour pressure : < 0.01 mm Hg @ 20°C

Relative vapour density at 20 °C : No data available

Relative density : 1.04 % Volatiles : < 3 %

Solubility : Slightly. Soluble in water.

Partition coefficient n-octanol/water (Log Pow) : No data available
Partition coefficient n-octanol/water (Log Kow) : No data available
Viscosity, kinematic : 300 – 400 cSt
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Organic acid vapors.

ATE CLP (oral)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ALLYLOXY(POLYETHYLENE OXIDE), METHYL ETHER (10-15 EO) (27252-80-8)		
ATE CLP (oral) 515.464 mg/kg bodyweight		
Allyloxy(polyethylene oxide), methyl ether (27252-80-8)		
LD50 oral rat > 500 mg/kg		

500 mg/kg bodyweight

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Allyl alcohol (107-18-6)		
LD50 oral rat	64 mg/kg	
LD50 oral mouse	96 mg/kg	
LD50 dermal rabbit	89 mg/kg	
LC50 Inhalation - Rat	0.391 mg/l/4h	
ATE CLP (oral)	64 mg/kg bodyweight	
ATE CLP (dermal)	45 mg/kg bodyweight	
ATE CLP (vapours)	1.76 mg/l/4h	
ATE CLP (dust,mist)	1.76 mg/l/4h	

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after inhalation : No information available. Symptoms/effects after skin contact : May cause skin irritation. Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : Harmful if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long- : Not classified

term (chronic)

Allyl alcohol (107-18-6)	
LC50 - Fish [1]	0.28 – 0.37 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	0.32 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Allyl alcohol (107-18-6)	
BCF - Fish [1]	(no bioaccumulation expected)
Partition coefficient n-octanol/water (Log Pow)	0.17

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility..

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

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

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UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations 15.1.1.

Not listed on the POP list (Regulation EU 2019/1021) Not listed on the REACH Candidate List Not listed on REACH Annex XIV (Authorisation List) Not listed on the PIC list (Regulation EU 649/2012)

% Volatiles : < 3 %

15.1.2. **National regulations**

Germany

: WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 3275) Regulatory reference

Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen The substance is not listed SZW-lijst van reprotoxische stoffen -The substance is not listed Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

The substance is not listed SZW-lijst van reprotoxische stoffen -

Ontwikkeling

The substance is not listed

Denmark

Danish National Regulations Young people below the age of 18 years are not allowed to use the product

Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health, IARC: International Agency for Research on Cancer, NTP: National Toxicology Program, HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Acute toxicity (dermal), Category 3	
Acute toxicity (inhal.), Category 3	
Acute toxicity (oral), Category 3	
Acute toxicity (oral), Category 4	
Hazardous to the aquatic environment – Acute Hazard, Category 1	
Serious eye damage/eye irritation, Category 2	
Flammable liquids, Category 2	
Highly flammable liquid and vapour.	
Toxic if swallowed.	
Harmful if swallowed.	
Toxic in contact with skin.	
Causes skin irritation.	
Causes serious eye irritation.	

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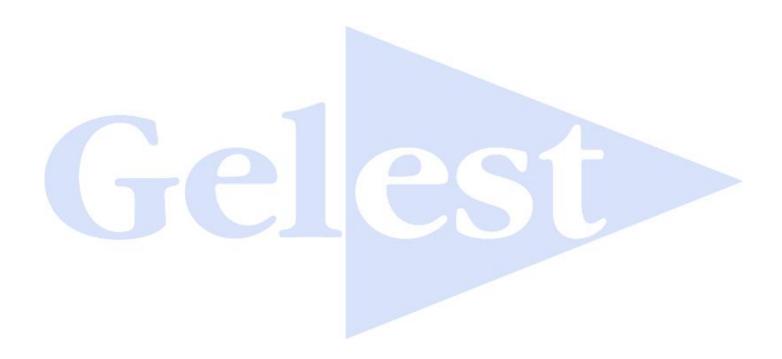
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
H400	Very toxic to aquatic life.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

SDS EU (REACH Annex II) - Custom

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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