

# Safety Data Sheet

according to Hazardous Products Regulations (HPR; SOR/2015-17)

Trade name : POLY601  
Revision date : 03.08.2023  
Print date : 03.08.2023

Version (Revision) : 2.0.0 (1.0.0)

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

### 1.1 Product identifier

POLY601

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

#### Relevant identified uses

Metal working fluids  
Lubrication at high energy conditions in metal working operations

#### Uses advised against

No information available.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/downstream user/distributor)

2389305 Alberta ltd ([www.CNCmarket.ca](http://www.CNCmarket.ca))

**Street :** 1144 Legacy cir SE

**Postal code/City :** Calgary, AB, T2X4E5

**Telephone :** 8257356698

**E-mail address :** [info@CNCmarket.ca](mailto:info@CNCmarket.ca)

### 1.4 Emergency telephone number

Chemtrec: **1-800-424-9300** (24h/7d)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to HPR (SOR/2015-17)

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

### 2.2 Label elements

#### Labelling according to HPR (SOR/2015-17)

##### Hazard pictograms



Corrosion (GHS05) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard components for labelling

Poly(oxy-1,2-ethanediol)-phenyl-hydroxy phosphate ; CAS No. : 39464-70-5

2-AMINOETHANOL ; CAS No. : 141-43-5

1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5

##### Hazard statements

H318 Causes serious eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

##### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P362	Take off contaminated clothing.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents and container in accordance with all local and national regulations.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

Mixture of substances listed below with nonhazardous additions.

#### Hazardous ingredients

Poly(oxy-1,2-ethanediol)-phenyl-hydroxy phosphate ; CAS No. : 39464-70-5

Weight fraction :  $\geq 3 - < 5 \%$

Classification: Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315

2-AMINOETHANOL ; CAS No. : 141-43-5

Weight fraction :  $\geq 3 - < 5 \%$

Classification: Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

1,2-BENZISOTHIAZOL-3(2H)-ONE ; CAS No. : 2634-33-5

Weight fraction :  $\geq 0,25 - < 0,5 \%$

Classification : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400

DICYCLOHEXYLAMINE ; CAS No. : 101-83-7

Weight fraction :  $< 2 \%$

Classification: Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove victim out of the danger area. When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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## After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

## Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet, Water mist, Sand,

#### Unsuitable extinguishing media

Strong water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Smoke and other incomplete combustion products.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3 Methods and material for containment and cleaning up

#### For containment

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

### 6.4 Reference to other sections

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Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Handle and open container with care. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray.

#### Protective measures

##### Measures to prevent fire

No special fire protection measures are necessary.

##### Environmental precautions

Do not allow to enter into surface water or drains.

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product. Protect containers against damage.

##### Hints on joint storage

Keep away from: Oxidizing agent

##### Do not store together with

Food and feedingstuffs

##### Further information on storage conditions

**Recommended storage temperature :** 5 - 40°C / 40 - 105°F.

**Protect against :** Frost Heat. UV-radiation/sunlight

**Storage stability :** Product may be stored for up to 12 months under described conditions.

#### 7.3 Specific end use(s)

None

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational exposure limit values

Ethanolamine; CAS No. : 141-43-5	<b>Alberta Provincial</b> (Canada). <b>OEL:</b> 3 ppm; 7,5 mg/m <sup>3</sup> 8 hours (2004) <b>OEL:</b> 6 ppm; 15 mg/m <sup>3</sup> 15 min (2004) <b>British Columbia Provincial</b> (Canada). <b>TWA:</b> 3 ppm, 8 hours (2014) <b>STEL:</b> 6 ppm, 15 min (2014) <b>Ontario Provincial</b> (Canada). <b>TWA:</b> 3 ppm, 8 hours (6/2015) <b>STEL:</b> 6 ppm, 15 min (6/2015) <b>Québec Provincial</b> (Canada). <b>TWAEV:</b> 3 ppm; 7,5 mg/m <sup>3</sup> 8 hours <b>STEV:</b> 6 ppm; 15 mg/m <sup>3</sup> 15 min
Triethanolamine; CAS No. : 102-71-6	<b>Alberta Provincial</b> (Canada). <b>OEL:</b> 5 mg/m <sup>3</sup> 8 hours (2004) <b>British Columbia Provincial</b> (Canada).

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	<p><b>TWA:</b> 5 mg/m<sup>3</sup> 8 hours (2004)</p> <p><b>Ontario Provincial</b> (Canada). <b>TWA:</b> 3.1 mg/m<sup>3</sup> (0.5 ppm) 8 hours (6/2015)</p> <p><b>Québec Provincial</b> (Canada). <b>TWAEV:</b> 5 mg/m<sup>3</sup> 8 hours (1/2000)</p> <p><b>Saskatchewan Provincial</b> (Canada). <b>STEL:</b> 10 mg/m<sup>3</sup> 15 minutes (2007) <b>TWA:</b> 5 mg/m<sup>3</sup> 8 hours (2007)</p>
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NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

## 8.2 Exposure controls

### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Personal protection equipment

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

##### Hand protection

Protective gloves DIN EN 374

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

##### Suitable material :

Wearing time with permanent contact:

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,70 mm

Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):

NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,40 mm

Breakthrough time (maximum wearing time): > 30 min

**Unsuitable material :** PVA (Polyvinyl alcohol),

**Breakthrough time (maximum wearing time):** : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Body protection: not required. If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

#### Respiratory protection

Usually no personal respirative protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation.

#### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Wash contaminated clothing prior to re-use. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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**Physical state :** Liquid  
**Colour :** yellow  
**Odour :** characteristic

## Safety characteristics

<b>Melting point/freezing point :</b>		No data available		
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	not applicable		
<b>Flammability:</b>		flammable		
<b>Lower explosion limit :</b>		No data available		
<b>Upper explosion limit :</b>		No data available		
<b>Flash point :</b>	>	100 °C		DIN EN ISO 2592
<b>Auto-ignition temperature :</b>		No data available		
<b>Decomposition temperature :</b>		not determined		
<b>pH :</b>	( 20 °C / 5 Weight-% )	9,5		DIN 51369
<b>Cinematic viscosity :</b>	( 20 °C ) approx.	65 mm <sup>2</sup> /s		DIN EN ISO 3104
<b>Water solubility :</b>	( 20 °C )	miscible		
<b>Vapour pressure :</b>	( 20 °C )	No data available		
<b>Density :</b>	( 15 °C )	1,085 g/cm <sup>3</sup>		DIN EN ISO 12185
<b>Relative vapour density :</b>	( 20 °C )	No data available		

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Oxidising agent, strong.  
Acid

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes

Toxicological data are not available. The statement is derived from the properties of the single components.

#### Acute toxicity

Based on available data, the classification criteria are not met.

##### Acute oral toxicity

Parameter :	LD50 ( Poly(oxy-1,2-ethanediol)-phenyl-hydroxy phosphate ; CAS No. : 39464-70-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )
Exposure route :	Oral

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Species : Rat  
Effective dose : 1000 mg/kg  
Parameter : LD50 ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 200 mg/kg

## Acute dermal toxicity

Parameter : LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 1025 mg/kg  
Method : literature  
Parameter : LD50 ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 200 - 316 mg/kg

## Corrosion

### Skin corrosion/irritation

Parameter : Skin corrosion/irritation ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Rabbit  
Result : corrosive  
Method : OECD 404  
Parameter : Skin corrosion/irritation ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )  
Species : Rabbit  
Result : corrosive  
irritant.

### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Rabbit  
Result : corrosive  
Method : OECD 405  
Parameter : Serious eye damage/eye irritation ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )  
Species : Rabbit  
Result : corrosive

Causes serious eye damage.

## Respiratory or skin sensitisation

May cause sensitization by skin contact.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

## STOT-single exposure

### STOT SE 1 and 2

Based on available data, the classification criteria are not met.

## STOT-repeated exposure

### STOT RE 1 and 2

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met. For viscosity data, see section 9.

## 11.2 Information on other hazards

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## Other adverse effects

Processing vapours can irritate the respiratory tracts, skin and eyes.

## SECTION 12: Ecological information

### 12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

#### Aquatic toxicity

Harmless to aquatic organisms up to the tested concentration.

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( Poly(oxy-1,2-ethanediol)-phenyl-hydroxy phosphate ; CAS No. : 39464-70-5 )
Species :	Leuciscus idus (golden orfe)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 1000 mg/kg
Exposure time :	48 h
Parameter :	LC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )
Species :	Cyprinus carpio (Common Carp)
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )
Species :	Leuciscus idus (golden orfe)
Effective dose :	12 mg/l
Exposure time :	96 h
Method :	OECD 203

##### Acute (short-term) toxicity to crustacea

Parameter :	EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )
Species :	Daphnia magna (Big water flea)
Effective dose :	65 mg/l
Exposure time :	48 h
Parameter :	EC50 ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )
Species :	Daphnia magna (Big water flea)
Effective dose :	8 mg/l
Exposure time :	48 h
Method :	OECD 202

##### Acute (short-term) toxicity to algae and cyanobacteria

Parameter :	EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )
Species :	Scenedesmus subspicatus
Effective dose :	22 mg/l
Exposure time :	72 h
Parameter :	EC50 ( DICYCLOHEXYLAMINE ; CAS No. : 101-83-7 )
Species :	Scenedesmus subspicatus
Effective dose :	3,3 mg/l
Exposure time :	72 h
Method :	OECD 201

### 12.2 Persistence and degradability

Part of the components is biodegradable.

### 12.3 Bioaccumulative potential

There are no data available on the mixture itself.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

### 12.8 Additional ecotoxicological information

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Do not pressurise, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### National regulations Canada

**NFPA Hazard ID:** Health: 2; Flammability: 1; Reactivity: 1

**HMIS Hazard ID:** Health: 2; Flammability: 1; Reactivity: 1

**CEPA:** All components of this product are either on the Domestic Substance List (DSL) or are exempt.

This material is considered to be hazardous according to regulatory guidelines.

This product has been classified in accordance with hazard criteria of the Hazardous Products Regulations (HPR) SOR/2015-17 and the SDS contains all the information required by the HPR SOR/2015-17.

### 15.2 Chemical Safety Assessment

No information available.

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### SECTION 16: Other information

#### 16.1 Indication of changes

02. Labelling · 03. Hazardous ingredients · 08. Occupational exposure limit values

#### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System on the Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

#### 16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

#### 16.4 Classification for mixtures and used evaluation method

No information available.

#### 16.5 Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### 16.6 Training advice

Provide adequate information, instruction and training for operators.

#### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of

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mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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