according to Regulation (EC) No. 1907/2006 (REACH)

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

#### 1.1 Product identifier

Lithofin STAINSTOP > W <

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

Mixture Impregnation, aqueous solution

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Contact:

**Supplier:** Lithofin AG

Street: Heinrich-Otto-Str. 36

Postal code/city: 73240 Wendlingen

Telephone: +49 (0)7024 9403-0

Telefax: +49 (0)7024 9403-40

Contact: Technical Department
E-mail: info@lithofin.de

Emergency telephone number:

+49 (0)7024 9403-0

(Only available during office hours)

## 1.4 Emergency telephone number

see section 1.3

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

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

None

#### **Additional information**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# Remark

Full text of H- and EUH-phrases: see section 16.

#### 2.2 Label elements

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

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

Other labelling

# 2.3 Other hazards

None

## 2.4 Additional information

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

## **Hazardous ingredients**

ETHANEDIOL ; REACH registration No. : 01-2119456816-28-xxxx ; EC No. : 203-473-3; CAS No. : 107-21-1 Weight fraction :  $\geq$  5 - < 10 %

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Classification 1272/2008 [CLP]: STOT RE 2; H373 Acute Tox. 4; H302

PROPAN-2-OL; REACH registration No.: 01-2119457558-25-xxxx; EC No.: 200-661-7; CAS No.: 67-63-0

Weight fraction :  $\geq 5 - < 10 \%$ 

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

#### **Additional information**

All ingredients of this mixture are (pre)registered according to REACH regulation.

Full text of H- and EUH-phrases: see section 16.

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

## **General information**

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

## Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### After eve contact

Rinse immediately carefully and thoroughly with eye-bath or water. Protect uninjured eye. In case of eye irritation consult an ophthalmologist.

# After ingestion

When in doubt or if symptoms are observed, get medical advice. Rinse mouth thoroughly with water. Do NOT induce vomiting.

# Self-protection of the first aider

First aider: Pay attention to self-protection!

# 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

None

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media

Water spray ABC-powder Foam

## Unsuitable extinguishing media

Full water jet Strong water jet

# 5.2 Special hazards arising from the substance or mixture

# **Hazardous combustion products**

Carbon monoxide Carbon dioxide (CO2) Hydrogen fluoride Fluoropolymers

## 5.3 Advice for firefighters

Use suitable breathing apparatus.

# **Special protective equipment for firefighters**

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

## 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

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## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

## 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

# For cleaning up

Suitable material for taking up: Universal binder

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Clear spills immediately.

#### 6.4 Reference to other sections

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

When using do not eat, drink, smoke, sniff.

#### **Protective measures**

not useable after freezing. Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

## Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention.

Fire class :

Shake well before use nein

# Advices on general occupational hygiene

P362+P364 - Take off contaminated clothing and wash it before reuse.

# 7.2 Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

# Hints on joint storage

Storage class (TRGS 510): 10

**Protect from frost** ja

**Recommended storage temperature** 5 - 25 °C

## Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

Protect against: Frost

## 7.3 Specific end use(s)

## Recommendation

Observe technical data sheet. Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

## Occupational exposure limit values

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ETHANEDIOL; CAS No.: 107-21-1

Limit value type (country of origin) : TRGS 900 ( D ) Limit value : 10 ppm  $\,/\,$  26 mg/m³

Peak limitation: 2(I)
Remark: H,Y
Version: 01.03.2018
Limit value type (country of origin): STEL ( EC )

Limit value: 40 ppm / 104 mg/m<sup>3</sup>

Remark:

Version: 31.01.2018 Limit value type (country of origin): TWA (  $\operatorname{EC}$  )

Limit value: 20 ppm / 52 mg/m<sup>3</sup>

Remark:

Version: 31.01.2018

PROPAN-2-OL; CAS No.: 67-63-0

Limit value type (country of origin) : TRGS 900 ( D )  $\,$ 

Limit value: 200 ppm / 500 mg/m<sup>3</sup>

Peak limitation: 2(II)
Remark: Y
Version: 01.03.2018
Limit value type (country of origin): TRGS 903 ( D )

Parameter: Acetone / Whole blood (B) / End of exposure or end of shift

Limit value: 25 mg/l
Version: 01.03.2018
Limit value type (country of origin): TRGS 903 ( D )

Parameter: Acetone / Urine (U) / End of exposure or end of shift

Limit value : 25 mg/l Version : 01.03.2018

## 8.2 Exposure controls

## **Appropriate engineering controls**

Ensure adequate ventilation of the storage area.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

# **Personal protection equipment**

## Eye/face protection

Usually no personal eye/face protection necessary. Eye/face protection necessary at: Splashes, Contact with eyes, Spray application.

## Suitable eye protection

Eye glasses with side protection goggles

# Required properties

DIN EN 166

# Skin protection

Usually no personal skin protection necessary. Skin protection necessary at: Splashes, Contact with skin, Spray application.

## **Hand protection**

Suitable gloves type: Gloves with long cuffs

Suitable material: NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber),

0,7mm, >8h;

**Recommended glove articles**: Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures: Check leak tightness/impermeability prior to use.

**Remark**: Breakthrough times and swelling properties of the material must be taken into consideration. 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. 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. Barrier creams are not substitutes for body protection.

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## **Body protection**

Protective clothing.

Suitable protective clothing: Chemical protection clothing Chemical resistant safety shoes

**Required properties**: acid-resistant. alkali-resistant.

Protective clothing.: DIN EN ISO 20345 DIN EN 13034 DIN EN 14605

footwear: DIN EN 14404

**Remark**: Barrier creams are not substitutes for body protection.

## Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

## Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

#### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

# **General health and safety measures**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to reuse. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Appearance: Liquid Colour: light yellow Odour: unspecific Safety relevant basis data

Melting point/melting range:	( 1013 hPa )	approx.	-10	°C	
Initial boiling point and boiling range:	( 1013 hPa )	approx.	88	°C	
Decomposition temperature :	( 1013 hPa )		not determined		
Flash point :		approx.	38	°C	closed cup (EN ISO 3679)
Ignition temperature :			not determined		,
Sustaining combustion			No		UN Test L2:Sustained combustibility test
Lower explosion limit : Upper explosion limit :			not determined not determined		
Vapour pressure :	(50 °C)	<	3000	hPa	
Density:	( 20 °C )		1	g/cm³	Pyknometer (DIN EN ISO 2811-1)
Solvent separation test :	( 20 °C )	<	3	%	Test L1: Solvent separation test (UN)
Water solubility	( 20 °C )		miscible		
pH: log P O/W:		approx.	5 not determined		DIN 19268 (Mixture)
Flow time :	( 23 °C )	approx.	13	S	ISO cup 4 mm (DIN EN ISO 2431)
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC content-EC		approx.	19,4	Wt %	*
VOC-France			A+		Décret no 2011-321 du 23 mars 2011

(\* VOC-EC = "Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than

23 mars 2011

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or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

#### 9.2 Other information

None

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

# 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### **Acute effects**

There are no data available on the preparation/mixture itself. Data apply to the main component.

#### **Acute oral toxicity**

Parameter: LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )

Exposure route:

Species:

Rat

Effective dose:

Method:

Oral

Sat

Sat

Method:

OECD 401

**Acute dermal toxicity** 

Parameter: LD50 (ETHANEDIOL; CAS No.: 107-21-1)

Exposure route: Dermal
Species: Mouse
Effective dose: > 3500 mg/kg

Parameter: LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )

Exposure route: Dermal
Species: Rabbit
Effective dose: 13900 mg/kg
Method: OECD 402

Acute inhalation toxicity

Parameter: LC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )

Exposure route: Inhalation
Species: Rat
Effective dose: > 2,5 mg/l
Exposure time: 6 h

Parameter: LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )

Exposure route : Inhalation
Species : Rat
Effective dose : > 25 mg/l
Exposure time : 6 h
Method : OECD 403

## Specific symptoms in animal studies

There are no data available on the preparation/mixture itself.

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## **Irritant and corrosive effects**

## Assessment/classification

slightly irritant but not relevant for classification.

#### Sensitisation

There are no data available on the preparation/mixture itself.

## Repeated dose toxicity (subacute, subchronic, chronic)

There are no data available on the preparation/mixture itself.

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

# Carcinogenicity

There are no data available on the preparation/mixture itself.

## Other information

No indication of human carcinogenicity.

# Germ cell mutagenicity

There are no data available on the preparation/mixture itself.

No indications of human germ cell mutagenicity exist.

## Reproductive toxicity

There are no data available on the preparation/mixture itself.

#### Other information

No indications of human reproductive toxicity exist.

## **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## **STOT-single exposure**

See SECTION 2.1 (classification).

# **STOT-repeated exposure**

See SECTION 2.1 (classification).

# **Aspiration hazard**

See SECTION 2.1 (classification).

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Data apply to the main component. There are no data available on the preparation/mixture itself.

# **Aquatic toxicity**

# Chronic (long-term) fish toxicity

Parameter: NOEC ( ETHANEDIOL ; CAS No. : 107-21-1 )

Species: Fish
Effective dose: 15380 mg/l
Exposure time: 7 d

# Chronic (long-term) daphnia toxicity

Parameter: NOEC (ETHANEDIOL; CAS No.: 107-21-1)

Species: Daphnia
Effective dose: 8590 mg/l
Exposure time: 7 d

# Acute (short-term) algae toxicity

Parameter: EC50 (ETHANEDIOL; CAS No.: 107-21-1)

 Species :
 Daphnia

 Effective dose :
 > 100 mg/l

 Exposure time :
 48 h

 Method :
 OECD 202

Parameter: EC50 ( PROPAN-2-OL; CAS No.: 67-63-0 )

Species: Daphnia
Effective dose: 9714 mg/l
Exposure time: 24 h

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## Effects in sewage plants

Observe local regulations concerning effluent treatment.

## 12.2 Persistence and degradability

There are no data available on the preparation/mixture itself.

#### **Biodegradation**

There are no data available on the preparation/mixture itself.

# 12.3 Bioaccumulative potential

There are no data available on the preparation/mixture itself.

#### 12.4 Mobility in soil

There are no data available on the preparation/mixture itself.

## 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Other adverse effects

There are no data available on the preparation/mixture itself.

# 12.7 Additional ecotoxicological information

#### Additional information

The product has not been tested.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Dispose according to legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

# **Product/Packaging disposal**

# Waste codes/waste designations according to EWC/AVV

## Waste code product

Waste code (EWC/AVV): 07 01 99

# Waste treatment options

29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

# Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

## 13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

## **SECTION 14: Transport information**

## 14.1 UN 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

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

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not required.

# **SECTION 15: Regulatory information**

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

## **EU** legislation

REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (clp) Directive 2008/98/EC of the European Parliament and of the Council on waste (2000/532/EC) EN 2:1992 (DIN EN 2:2005-01)

## Authorisations and/or restrictions on use

#### **Restrictions on use**

Use restriction according to REACH annex XVII, no.: None, if handled according to order.

#### **Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

## Other regulations (EU)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals [PIC-Regulation]

REGULATION (EU) No 98/2013 on the marketing and use of explosives precursors: Not applicable.

# Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer

Not applicable.

Contains the following substances that deplete the ozone layer: -

## Regulation (EC) No 850/2004 [POP-Regulation]

Not applicable.

Name of the persistent organic pollutant (POP): -

## **National regulations**

Observe in addition any national regulations!

Germany:

TRGS 400 (Risk assessment for activities involving hazardous substances)

TRGS 500 (Protective measures)

TRGS 510 (Storage of hazardous substances in non-stationary containers)

TRGS 555 (Working instruction and information for workers)

### Water hazard class (WGK)

Class: 1 (Slightly hazardous to water) Classification according to AwSV

#### Other regulations, restrictions and prohibition regulations

## Switzerland

**VOCV-Regulation** 

Maximum VOC content (Switzerland) :  $\,$  9,5  $\,$  Wt  $\,$   $\,$  according to VOCV  $\,$ 

## 15.2 Chemical safety assessment

For this substance/mixture a chemical safety assessment has not been carried out.

## 15.3 Additional information

#### **SECTION 16: Other information**

## 16.1 Indication of changes

07. Hints on joint storage - Storage class

## 16.2 Abbreviations and acronyms

ABC-Pulver Extinguishing powder for fire class A, B and C

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ABEK-P1 combination filter

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

AVV Abfallverzeichnis-Verordnung (Waste Regulation)

AWSV Ordinance on facilities for the handling of substances hazardous to water

BGR BG rules and regulations

ca. circa

CAS Chemical Abstract Service

CLP classification, labelling and packaging
CMR Carcinogen, mutagen or toxic for reproduction

DIN German Institute for Standardization

DNEL Derived No-Effect Level

EAK/EWC/EAC/CWR/CER European Waste Catalogue

EC50 / CE50 Effective Concentration 50%

EG / EC / CE European Community

EN European Standard

EUH supplemental hazard statement of the european union
GefStoffV Gefahrstoffverordnung (Hazardous Substances Ordinance)

GHS / SGH Globally Harmonised System

H-Sätze hazard statements

IATA-DGR International Air Transport Association-Dangerous Goods Regulations

International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ICAO-TI International Civil Aviation Organization-Technical Instructions

IMDG-Code International Maritime Dangerous Goods Code ISO International Organization for Standardization

LC50 / CL50 Lethal Concentration 50%

LD50 / DL50 Lethal Dose 50%

log P O/W Partition coefficient n-octanol/water

MARPOL International Convention for the Prevention of Pollution from Ships (marine pollution)

NOAEL (DSET) No observed adverse effect level NOEC (CSEO) No observed effect concentration

Nr. Number

OECD Organisation for Economic Co-operation and Development

PBT persistent, bioaccumulative and toxic

pH Potentia hydrogenii PIC prior informed consent

PNEC Predicted No-Effect Concentration
POP Persistent organic pollutants
P-Sätze precautionary statements

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID International Carriage of Dangerous Goods by Rail

STEL / LECT short-term exposure limit

TRGS Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)

TWA / MPT time-weighted average UN/ONU United Nations

VOC/COV/VOS/LZO Volatile Organic Compound

VOCV Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)

vPvB very persistent and very bioaccumulative

according to Regulation (EC) No. 1907/2006 (REACH)

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WGK Wassergefährdungsklasse (Water hazard class)

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu. 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

Regulation (EC) No 1272/2008 (GHS)

ECHA: Registered substances (https://echa.europa.eu/information-on-chemicals/registered-substances)

REACH Art. 59: -Candidate List of substances of very high concern for Authorisation

(https://www.echa.europa.eu/candidate-list-table)

# Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard statements for physical hazards : On basis of test data. Hazard statements for health hazards : Calculation method. Hazard statements for environmental hazards : Calculation method.

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

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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

# 16.6 Training advice

None

## 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 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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