

# Safety Data Sheet

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

Trade name : THERMORY Thermoholz-Öl Dunkel  
Article number : 4301090-00  
Revision date : 13.11.2019 Version (Revision) : 5.1.0 (4.0.0)  
Print date : 29.05.2020

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

### 1.1 Product identifier

THERMORY Thermoholz-Öl Dunkel

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

#### Relevant identified uses

Coatings

#### Uses advised against

No information available.

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

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

SWERO KG

**Street :** Roggenzell 14/1

**Postal code/city :** 88239 Wangen im Allgäu

**Telephone :** +49 (0) 7528/975388

**Telefax :** +49 (0) 7528/975389

**Information contact :** E-Mail: info@swero.de

### 1.4 Emergency telephone number

+49 / (0)700 24112112 (KOR)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

None

#### Classification procedure

Calculation method.

### 2.2 Label elements

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

##### Special rules for supplemental label elements for certain mixtures

EUH208 Contains 1,2-benzisothiazol-3(2H)-one ; REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

1,2-benzisothiazol-3(2H)-one ; REACH No. : 01-2120761540-60 ; EC No. : 220-120-9; CAS No. : 2634-33-5

Weight fraction :  $\geq 0,005$  -  $< 0,05$  %

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; REACH No. : Biocide ; CAS No. : 55965-84-9 (M=100)

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Weight fraction :  $\geq 0,00015 - < 0,0015 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 2 ; H310 Acute Tox. 2 ; H330 Acute Tox. 3 ; H301 Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410  
2-methyl-2H-isothiazol-3-one ; REACH No. : 01-2120764690-50 ; EC No. : 220-239-6 ; CAS No. : 2682-20-4 (M Acute=10) (M Chronic=1)  
Weight fraction :  $\geq 0,00015 - < 0,0015 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

## Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing. 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.

#### Following inhalation

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

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

#### After eye contact

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

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

#### Notes for the doctor

#### Special treatment

Treat symptomatically.

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

May produce an allergic reaction.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) alcohol resistant foam Water spray jet Extinguishing powder Sand

#### Unsuitable extinguishing media

None

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

None

### 5.3 Advice for firefighters

In case of fire toxic gases may be formed. Collect contaminated fire extinguishing water separately. Do not allow

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entering drains or surface water.

## Special protective equipment for firefighters

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

## 5.4 Additional information

None

## SECTION 6: Accidental release measures

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

Take the precautions customary when handling chemicals. Use personal protection equipment. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

#### For cleaning up

Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

None

### 6.5 Additional information

No data available

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

#### Protective measures

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

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

#### Requirements for storage rooms and vessels

Keep/Store only in original container.

#### Hints on joint storage

Storage class (TRGS 510) : 12

#### Further information on storage conditions

Protect containers against damage.

Protect against : Frost

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

3-IODO-2-PROPYNYL BUTYLCARBAMATE ; CAS No. : 55406-53-6

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

Limit value : 0,005 ppm / 0,058 mg/m<sup>3</sup>

Peak limitation : 2(I)

# Safety Data Sheet

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Remark : Sh, Y  
Version : 29.03.2019  
Limit value type (country of origin) : MAK ( EC )  
Limit value : 0,01 ml/m<sup>3</sup> / 0,12 mg/m<sup>3</sup>  
Remark : S, SSc  
Version :  
Limit value type (country of origin) : Switzerland SUVA Limit Values ( EC )  
Limit value : 0,02 ml/m<sup>3</sup> / 0,24 mg/m<sup>3</sup>  
Remark : KZG  
Version :

## Biological limit values

No data available

## DNEL-/PNEC-values

### DNEL/DMEL

No data available

### PNEC

No data available

## 8.2 Exposure controls

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

### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection

#### Skin protection

##### Hand protection

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. EN ISO 374

**Suitable material** : Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber)

**Breakthrough time (maximum wearing time)** : 480 minutes. Check leak tightness/impermeability prior to use.

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.

**Thickness of the glove material** : 0,4 mm

#### Respiratory protection

Usually no personal respiratory protection necessary.

### General information

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

## 8.3 Additional information

No data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid

**Colour** : Different according to colour

#### Odour

light

#### Safety characteristics

**Solidifying point** : ( 1 bar / 1 Pa ) not determined Brookfield

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Melting point/freezing point :			not determined	
Freezing point :			not determined	
Initial boiling point and boiling range :			not determined	
Decomposition temperature :			not determined	
Flash point :			not applicable	
Auto-ignition temperature :			not determined	
Lower explosion limit :			not determined	
Upper explosion limit :			not determined	
Vapour pressure :	( 50 °C )		not determined	
Density :	( 20 °C )	approx.	1,02	g/cm <sup>3</sup>
Solvent separation test :	( 20 °C )		not determined	
Fat solubility :	( 20 °C )		Not determined.	
Solubility in water			soluble	
pH :	( 20 °C )	approx.	9	
log P O/W :			not determined	
Flow time :	( 20 °C )	approx.	15	s DIN-cup 4 mm
Solid content :		approx.	15	Wt %
Odour threshold :			not determined	
Relative vapour density :	( 20 °C )		not determined	
Evaporation rate :			not determined	
Vapourisation rate :			not determined	
VOC-value :		<	130	g/l
Flammable solids :	Not determined.			
Flammable gases :	Not determined.			
Oxidising liquids :	Not determined.			
Explosive properties :	Not determined.			
Corrosive to metals :	Not determined.			

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No information available.

### 10.7 Additional information

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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---

## Acute oral toxicity

The product has not been tested.

## Acute dermal toxicity

The product has not been tested.

## Acute inhalation toxicity

Parameter : LC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )

Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,33 mg/l  
Exposure time : 4 h

The product has not been tested.

## Specific effects (Longterm animal experiment)

The product has not been tested.

## Corrosion

### Skin corrosion/irritation

The product has not been tested.

### Serious eye damage/eye irritation

The product has not been tested.

### Irritation to respiratory tract

The product has not been tested.

## Respiratory or skin sensitisation

### Skin sensitisation

The product has not been tested.

### Sensitisation to the respiratory tract

The product has not been tested.

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

The product has not been tested.

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

### Carcinogenicity

The product has not been tested.

### Germ cell mutagenicity

The product has not been tested.

### Reproductive toxicity

The product has not been tested.

## STOT-single exposure

The product has not been tested.

## STOT-repeated exposure

The product has not been tested.

## Aspiration hazard

The product has not been tested.

## 11.2 Toxicokinetics, metabolism and distribution

The product has not been tested.

## 11.3 Symptoms related to the physical, chemical and toxicological characteristics

No data available

## 11.4 Other adverse effects

No data available

## 11.5 Additional information

May produce an allergic reaction.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity

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

Parameter : LC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,22 mg/l  
Exposure time : 96 h

The product has not been tested.

###### Chronic (long-term) fish toxicity

Parameter : NOEC ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 0,098 mg/l  
Exposure time : 28 D  
Method : OECD 210

The product has not been tested.

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

Parameter : EC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 0,1 mg/l  
Exposure time : 48 h

The product has not been tested.

###### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 0,004 mg/l  
Exposure time : 21 D  
Method : OECD 211

The product has not been tested.

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

Parameter : EC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 0,0048 mg/l  
Exposure time : 72 h

Parameter : EC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Skeletonema costatum  
Effective dose : 0,0052 mg/l  
Exposure time : 48 h

The product has not been tested.

###### Chronic (long-term) algae toxicity

Parameter : NOEC ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 0,0012 mg/l

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---

Exposure time : 72 h  
Method : OECD 201  
Parameter : NOEC ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Species : Skeletonema costatum  
Effective dose : 0,00064 mg/l  
Exposure time : 48 h

The product has not been tested.

### Toxicity to microorganisms

Parameter : EC50 ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H -ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Effective dose : 7,92 mg/l  
Exposure time : 3 h  
Method : OECD 209

The product has not been tested.

### Terrestrial toxicity

The product has not been tested.

### Toxicity to terrestrial plants

The product has not been tested.

### Effects in sewage plants

The product has not been tested.

Parameter : EC20 ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Inoculum : Activated sludge  
Effective dose : 3,3 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC50 ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Inoculum : Activated sludge  
Effective dose : 13 mg/l  
Exposure time : 3 h  
Parameter : EC20 ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Inoculum : Activated sludge  
Effective dose : 2,8 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Inoculum : Activated sludge  
Effective dose : 34,6 mg/l  
Exposure time : 3 h

## 12.2 Persistence and degradability

### Abiotic degradation

The product has not been tested.

### Abiotic degradation (Water)

#### Hydrolysis

Parameter : Half-life time in soil ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Degradation rate : < 0,08 D  
Method : OECD 307

### Physicochemical elimination

Parameter : Half-life time ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Degradation rate : 1,28 - 2,1 D  
Method : OECD 308  
Parameter : Half-life time ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Degradation rate : 4,1 D  
Method : OECD 309



# Safety Data Sheet

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

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### Biodegradation

Parameter : Biodegradation ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Degradation rate : approx. 90 %  
Method : OECD 302B  
Parameter : Biodegradation ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Degradation rate : > 70 %  
Method : OECD 303A

The product has not been tested.

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Concentration : 6,95  
Method : OECD 305  
Parameter : Bioconcentration factor (BCF) ( REACTION MASS OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AND 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) ; CAS No. : 55965-84-9 )  
Concentration : 3,6  
Parameter : Bioconcentration factor (BCF) ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Concentration : 3,16  
Parameter : Partition coefficient: n-octanol/water ( 1,2-benzisothiazol-3(2H)-one ; CAS No. : 2634-33-5 )  
Concentration : 0,7  
Method : OECD 117  
Parameter : Partition coefficient: n-octanol/water ( 2-methyl-2H-isothiazol-3-one ; CAS No. : 2682-20-4 )  
Concentration : <= 0,32  
Method : OECD 117

The product has not been tested.

### 12.4 Mobility in soil

The product has not been tested.

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

No data available

### 12.7 Additional ecotoxicological information

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

#### Product/Packaging disposal

##### Waste treatment options

##### Appropriate disposal / Product

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

##### Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

Transport information Land transport (ADR/RID) : Sea transport (IMDG) : Air transport (ICAO-TI / IATA-DGR) :

# Safety Data Sheet

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Print date : 29.05.2020

## 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

## SECTION 15: Regulatory information

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

#### National regulations

##### Technische Anleitung Luft (TA-Luft)

Sum organic substances class III : 0,1 - 1 %

##### Water hazard class (WGK)

Class : 2 (Obviously hazardous to water) Classification according to AwSV

### 15.2 Chemical safety assessment

No information available.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Special rules for supplemental label elements for certain mixtures · 03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Restrictions on use

### 16.2 Abbreviations and acronyms

**REACH** - Registration, Evaluation, Authorisation of Chemicals

**GHS** - Globally Harmonised System of Classification and Labeling

**CLP** - Classification, Labeling and Packaging of Substances and Mixtures

**CAS** - Chemical Abstract Service

**TWA** - Time Weighted Average

**DNEL/DMEL** - Derived No Effect Level

**PNEC** - Predicted No Effect Concentration

**STP** - Sewage Treatment Plant

**TRGS** - Technical Rules for Hazardous Substances (German Regulations)

**STEL** - Short-term Exposure Limit

**TLV** - threshold limit value

**AGW** - Occupational threshold limit value

**RCP** - Reciprocal Calculation Procedure

**ATE** - Acute Toxicity Estimate

**MAK** Threshold limit values Germany

**LD50** - Lethal Dose, 50%

**LC50** - Lethal concentration, 50%

**OECD** - Organization for Economic Cooperation and Development

**NOAEL** - No Observed Adverse Effect Level

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**EC50** - half maximal effective concentration  
**NOEC** - No Observed Effect Concentration  
**PBT** - Persistent, Bioaccumulative, Toxic  
**vPvB** - very Persistent, very Bioaccumulative  
**ADR/RID** - European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)  
**IMDG** - International Maritime Dangerous Goods Code  
**ICAO** - International Civil Aviation Association  
**IATA** - International Air Transport Association  
**VwVws** - German administrative regulation on the classification of substances hazardous to water into water hazard classes  
**AwSV** - Ordinance on facilities for handling substances that are hazardous to water

### 16.3 Key literature references and sources for data

None

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

No information available.

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

None

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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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