

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.: 4517-8303 INDUSTRIEÖL-GRUND ZIMT  
Print date: 09.11.2015 Revision date: 20.10.2015 20332 EN  
Version: 000001-0016 Issue date: 20.10.2015 Page 1 / 8

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

### 1.1. Product identifiers

Article No. (manufacturer/supplier) 4517-8303  
Identification of the substance or mixture INDUSTRIEÖL-GRUND ZIMT

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

#### Relevant identified uses:

Paint / Accessory material for the treatment of surface by the industrial user.

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

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

Kneho-Lacke GmbH  
Wilberger Strasse 98-100 Telephone: +49 5234 8402-0  
D-32805 Horn-Bad-Meinberg Telefax: +49 5234 840250

#### Dept. responsible for information:

laboratory  
E-mail notruf@kneho.com

### 1.4. Emergency telephone number

Only available during office hours: +49 5234 8402-0  
Emergency telephone number +49 5234 840245

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226 flammable liquids Flammable liquid and vapour.  
Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

#### Hazard pictograms



Warning

#### Hazard statements

H226 Flammable liquid and vapour.  
H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243 Take precautionary measures against static discharge.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P501 Dispose of contents/container to industrial incineration plant.

#### contains:

not applicable

#### Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains 2-butanone oxime; Cobaltbis(2-ethylhexanoat). May produce an allergic reaction.

### 2.3. Other hazards

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Product description / chemical characterization

Description Vegetable oils in dearomatized benzins

#### Hazardous ingredients

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
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Article No.: 4517-8303 INDUSTRIEÖL-GRUND ZIMT  
Print date: 09.11.2015 Revision date: 20.10.2015 20332 EN  
Version: 000001-0016 Issue date: 20.10.2015 Page 2 / 8

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification	Wt % Remark
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304	35 < 50
927-241-2	01-2119471843-32 Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 3 H412	10 < 15
265-198-5 64742-94-5 649-424-00-3	01-2119463583-34-0000 Solvent naphtha (petroleum), heavy arom. Kerosine - unspecified Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	3 < 5
923-037-2	01-2119471991-29 Kohlenwasserstoffe, C10-C12, Isoalkane, < 2% Aromaten Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411	1 < 2
202-496-6 96-29-7 616-014-00-0	2-butanone oxime Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	0,25 < 0,5
205-250-6 136-52-7	01-2119524678-29 Cobaltbis(2-ethylhexanoat) Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Repr. 2 H361f / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,1 < 0,25
245-018-1 22464-99-9	01-2119979088-21 2-Ethylhexansäure, Zirkoniumsalz Repr. 2 H361d	0,1 < 0,25

## Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.:	4517-8303	INDUSTRIEÖL-GRUND ZIMT	
Print date:	09.11.2015	Revision date: 20.10.2015	20332 EN
Version:	000001-0016	Issue date: 20.10.2015	Page 3 / 8

## Extinguishing media which must not be used for safety reasons:

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

## SECTION 6: Accidental release measures

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

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

#### Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

#### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values:

1,2,4-trimethylbenzene

INDEX No. 601-043-00-3 / EC No. 202-436-9 / CAS No. 95-63-6

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.:	4517-8303	INDUSTRIEÖL-GRUND ZIMT	
Print date:	09.11.2015	Revision date: 20.10.2015	20332 EN
Version:	000001-0016	Issue date: 20.10.2015	Page 4 / 8

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WEL, TWA: 125 mg/m<sup>3</sup>; 25 ppm

## Additional information

TWA : long-term occupational exposure limit value  
STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

## DNEL:

2-butanone oxime

INDEX No. 616-014-00-0 / EC No. 202-496-6 / CAS No. 96-29-7

DNEL acute dermal, short-term (systemic), Workers: 2,5 mg/kg  
DNEL long-term dermal (systemic), Workers: 1,3 mg/kg  
DNEL long-term inhalative (local), Workers: 3,33 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 9 mg/m<sup>3</sup>  
DNEL acute dermal, short-term (systemic), Consumer: 1,5 mg/kg  
DNEL long-term dermal (systemic), Consumer: 0,78 mg/kg  
DNEL long-term inhalative (local), Consumer: 2 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 2,7 mg/m<sup>3</sup>

Cobaltbis(2-ethylhexanoat)

EC No. 205-250-6 / CAS No. 136-52-7

DNEL long-term inhalative (local), Workers: 0,2351 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 0,0558 mg/kg

2-Ethylhexansäure, Zirkoniumsalz

EC No. 245-018-1 / CAS No. 22464-99-9

DNEL long-term dermal (systemic), Workers: 6,49 mg/kg  
DNEL long-term inhalative (systemic), Workers: 32,97 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 4,51 mg/kg  
DNEL long-term dermal (systemic), Consumer: 3,25 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 8,13 mg/m<sup>3</sup>

Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten

EC No. 927-241-2

DNEL long-term dermal (systemic), Workers: 208 mg/kg bw/day  
DNEL long-term inhalative (systemic), Workers: 871 mg/m<sup>3</sup>  
DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day  
DNEL Longtime oral (systemic), Consumer: 125 mg/kg bw/day

## PNEC:

2-butanone oxime

INDEX No. 616-014-00-0 / EC No. 202-496-6 / CAS No. 96-29-7

PNEC aquatic, freshwater: 0,256 mg/L  
PNEC aquatic, intermittent release: 0,118 mg/L  
PNEC sewage treatment plant (STP): 177 mg/L

2-Ethylhexansäure, Zirkoniumsalz

EC No. 245-018-1 / CAS No. 22464-99-9

PNEC aquatic, freshwater: 0,36 mg/L  
PNEC aquatic, marine water: 0,036 mg/L  
PNEC sediment, freshwater: 6,37 mg/kg  
PNEC sediment, marine water: 0,637 mg/kg  
PNEC, Soil: 1,06 mg/kg  
PNEC sewage treatment plant (STP): 71,7 mg/L

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Occupational exposure controls

#### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number. Filter type: A2-P2 (EN 141, 143, 371)

#### Hand protection

# Safety Data Sheet

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according to Regulation (EU) No 453/2010

Article No.: 4517-8303  
Print date: 09.11.2015  
Version: 000001-0016

INDUSTRIEÖL-GRUND ZIMT  
Revision date: 20.10.2015  
Issue date: 20.10.2015

20332 EN  
Page 5 / 8

For prolonged or repeated handling the following glove material must be used: Latex gloves  
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.  
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374  
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye protection

Wear closely fitting protective glasses in case of splashes.

#### Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance:

**Physical state** liquid  
**Colour** refer to label  
**Odour** kind-typically

Safety relevant basis data	Unit	Method	Remark
Flash point:	> 23 °C		
Ignition temperature in °C:	200 °C		
Lower explosion limit:	0,6 Vol-%		
Upper explosion limit:	7,0 Vol-%		
Vapour pressure at 20 °C:	< 0.0001 mbar		
Density at 20 °C:	0,92 g/cm <sup>3</sup>		
Water solubility (g/L):	insoluble		
pH at 20 °C:	-		
Viscosity at 20 °C:	20 s 4 mm	DIN 53211	
Solvent separation test (%):	< 3 %	ADR/RID	
Solid content (%):	43,49 Wt %		
solvent content:			
Organic solvents:	57 Wt %		
Water:	0 Wt %		
Initial boiling point and boiling range:	147 °C		

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

No data on preparation itself available.

# Safety Data Sheet

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Article No.: 4517-8303 INDUSTRIEÖL-GRUND ZIMT  
Print date: 09.11.2015 Revision date: 20.10.2015  
Version: 000001-0016 Issue date: 20.10.2015

20332 EN  
Page 6 / 8

## 11.1. Information on toxicological effects

### Acute toxicity

2-butanone oxime

oral, LD50, Rat: 2300 - 3700 mg/kg

dermal, LD50, Rabbit: 1800 mg/kg

Kohlenwasserstoffe, C10-C12, Isoalkane, < 2% Aromaten

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: > 5000 mg/L (4 h)

Solvent naphtha (petroleum), heavy arom. Kerosine - unspecified

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: > 4951 mg/L (4 h)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: 4951 mg/L (4 h)

### skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.

### Respiratory or skin sensitisation

Toxicological data are not available.

### Specific target organ toxicity

Toxicological data are not available.

### Aspiration hazard

Toxicological data are not available.

### Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### 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.

### Remark

There is no information available on the preparation itself .

## SECTION 12: Ecological information

### overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

## 12.1. Toxicity

2-butanone oxime

Algae toxicity, ErC50, *Desmodesmus subspicatus*: 83 mg/L (72 h)

Solvent naphtha (petroleum), heavy arom. Kerosine - unspecified

Fish toxicity, LC50: 1 - 10 mg/L (96 h)

Daphnia toxicity, EC50: 1 - 10 mg/L (48 h)

Algae toxicity, ErC50: 1 - 10 mg/L

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.: 4517-8303 INDUSTRIEÖL-GRUND ZIMT  
Print date: 09.11.2015 Revision date: 20.10.2015 20332 EN  
Version: 000001-0016 Issue date: 20.10.2015 Page 7 / 8

Fish toxicity, LC50, Oncorhynchus mykiss: > 1000 mg/L (96 h)  
Daphnia toxicity, EC50: > 1000 mg/L (48 h)  
Algae toxicity, ErC50: > 1000 mg/L

## 12.2. Persistence and degradability

Toxicological data are not available.

## 12.3. Bioaccumulative potential

Toxicological data are not available.

## 12.4. Mobility in soil

Toxicological data are not available.

## 12.5. Results of PBT assessment

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

## 12.6. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

##### List of proposed waste codes/waste designations in accordance with EWC

080111 waste paint and varnish containing organic solvents or other dangerous substances

##### packaging

##### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information

#### 14.1. UN number

1263

#### 14.2. UN proper shipping name

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

#### 14.3. Transport hazard class(es)

3

#### 14.4. Packing group

III

#### 14.5. Environmental hazards

Land transport (ADR/RID) not applicable  
Marine pollutant not applicable

#### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

##### Additional information

##### Land transport (ADR/RID)

tunnel restriction code D/E  
SONDERVORSCHRIFT 640E

##### Sea transport (IMDG)

EmS-No. F-E, S-E

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

not applicable

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according to Regulation (EU) No 453/2010

Article No.: 4517-8303 INDUSTRIEÖL-GRUND ZIMT  
Print date: 09.11.2015 Revision date: 20.10.2015 20332 EN  
Version: 000001-0016 Issue date: 20.10.2015 Page 8 / 8

## SECTION 15: Regulatory information

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

#### EU legislation

##### Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 522

VOC-value (in g/L) ASTM D 2369: 522

##### according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. not apply to directive 2004/42/CE): 0 g/l (2007)/0 g/l (2010).

This product contains max 522 g/l VOC.

#### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### Other regulations, restrictions and prohibition regulations

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

## SECTION 16: Other information

#### Full text of classification in section 3:

Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 2 / H361f	Reproductive toxicity	Suspected of damaging fertility.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Repr. 2 / H361d	Reproductive toxicity	Suspected of damaging the unborn child.

#### Abbreviations and acronyms

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

#### Additional information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.