# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## HIGH GLOSS CLEAR

| | | | |
|---|---|---|---|
| Creation date | 12. March 2019 | | |
| Revision date | | Version | 1.1 |

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

**1.1. Product identifier** HIGH GLOSS CLEAR

Substance / mixture: mixture

Number: 1 35076

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

Mixture's intended use: Paint (lacquer).

Mixture uses advised against: For professional use only.

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

**Supplier**

Name or trade name: RETECH, s.r.o.

Address: Vackova 1541/4, Praha 5 - Stodůlky, 155 00 Czech Republic

Identification number (CRN): 25018205

Phone: +420327596428

E-mail: info@retech.cz

Web address: www.retech.com

**Competent person responsible for the safety data sheet**

Name: RETECH, s.r.o.

E-mail: info@retech.cz

**1.4. Emergency telephone number**

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

**SECTION 2: Hazards identification**

**2.1. Substance or mixture classification**

**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Aerosol 1, H222, H229
Skin Sens. 1, H317
Eye Irrit. 2, H319
STOT SE 3, H336

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

Extremely flammable aerosol. Pressurised container: May burst if heated.

**Most serious adverse effects on human health and the environment**

Causes serious eye irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction.

**2.2. Label elements**

**Hazard pictogram**

**Signal word**

Danger

**Hazardous substances**

acetone
hexamethylene diisocyanate, oligomers

**Hazard statements**

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

**Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe spray. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P410+P412 | Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to in accordance with national regulations. |

**Supplemental information**

| | |
|---|---|
| EUH 066 | Repeated exposure may cause skin dryness or cracking. |
| EUH 204 | Contains isocyanates. May produce an allergic reaction. |

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Buildup of explosive mixtures possible without sufficient ventilation.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|---|---|---|---|---|
| Index: 603-019-00-8<br>CAS: 115-10-6<br>EC: 204-065-8<br>Registration number: 01-2119472128-37 | dimethyl ether | 25-50 | Flam. Gas 1, H220<br>Press. Gas (compressed gas), H280 | 2 |
| Index: 606-001-00-8<br>CAS: 67-64-1<br>EC: 200-662-2<br>Registration number: 01-2119471330-49 | acetone | 12,5-20 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 | 2 |
| Index: 607-025-00-1<br>CAS: 123-86-4<br>EC: 204-658-1<br>Registration number: 01-2119485493-29 | n-butyl acetate | 5-10 | Flam. Liq. 3, H226<br>STOT SE 3, H336 | 2 |
| Index: 601-022-00-9<br>CAS: 1330-20-7<br>EC: 215-535-7<br>Registration number: 01-2119488216-32 | xylene (mixture of isomers) | 5-10 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312+H332<br>Skin Irrit. 2, H315 | 2 |

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note. |
|---|---|---|---|---|
| CAS: 28182-81-2<br>Registration number: 01-2119485796-17 | hexamethylene diisocyanate, oligomers | 2,5-5 | Skin Sens. 1, H317<br>Acute Tox. 4, H332<br>STOT SE 3, H335 | |
| Index: 601-023-00-4<br>CAS: 100-41-4<br>EC: 202-849-4<br>Registration number: 01-2119489370-35 | ethylbenzene | <2,5 | Flam. Liq. 2, H225<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 | 2 |
| Index: 606-026-00-4<br>CAS: 110-12-3<br>EC: 203-737-8 | 5-methylhexan-2-one | <2,5 | Flam. Liq. 3, H226<br>Acute Tox. 4, H332 | 2 |
| Index: 606-004-00-4<br>CAS: 108-10-1<br>EC: 203-550-1<br>Registration number: 01-2119473980-30 | 4-methylpentan-2-one | <1,0 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332<br>STOT SE 3, H335 | 2 |
| CAS: 53880-05-0 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers | <1,0 | Skin Sens. 1, H317<br>Resp. Sens. 1, H334 | |
| Index: 649-356-00-4<br>CAS: 64742-95-6<br>EC: 265-199-0<br>Registration number: 01-2119455851-35 | Solvent naphtha (petroleum), light arom. | ≤0,5 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H335, H336<br>Aquatic Chronic 2, H411 | |
| Index: 601-043-00-3<br>CAS: 95-63-6<br>EC: 202-436-9 | 1,2,4-trimethylbenzene | ≤0,5 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332<br>STOT SE 3, H335<br>Aquatic Chronic 2, H411 | |
| Index: 607-176-00-3<br>EC: 400-830-7 | reaction mass of α-3-(3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl) propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl) propionyl-ω-3-(3-(2H-benzotriazol-2-yl) -5-tert-butyl-4-hydroxyphenyl) propionyloxypoly (oxyethylene) | ≤0,5 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 | |
| CAS: 61788-93-0<br>EC: 263-020-0 | amines, coco alkyldimethyl | ≤0,5 | Acute Tox. 4, H302<br>Skin Corr. 1B, H314<br>Aquatic Acute 1, H400 | |
| CAS: 41556-26-7<br>EC: 255-437-1<br>Registration number: 01-2119491304-40 | bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | ≤0,5 | Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | |
| Index: 607-113-00-X<br>CAS: 97-86-9<br>EC: 202-613-0 | isobutyl methacrylate | ≤0,5 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 | 1 |

**Notes**

1 Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".

2 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. Symptoms of poisoning may manifest after many hours, medical supervision is necessary for 48 hours after the accident.

**Inhalation**

Terminate the exposure immediately; move the affected person to fresh air. In case of unconsciousness place patient stably in side position for transportation.

**Skin contact**

Immediately wash with water and soap and rinse thoroughly.

**Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

**Ingestion**

Rinse out the mouth with clean water. Provide medical treatment.

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

**Inhalation**

May cause drowsiness or dizziness.

**Skin contact**

May cause an allergic skin reaction.

**Eye contact**

Causes serious eye irritation.

**Ingestion**

not available

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

not available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Carbon dioxide, powder, water spray jet. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable extinguishing media**

Water - full jet.

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

not available

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

## SECTION 6: Accidental release measures

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

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Keep unprotected persons away.

### 6.2. Environmental precautions

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

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

Provide sufficient ventilation. Dispose of the collected material according to the instructions in the section 13. Do not flush with water or aqueous cleansing agents.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

Storage class 2B - Aerosols

**7.3. Specific end use(s)**

not available

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|---|---|---|---|---|---|
| dimethyl ether (CAS: 115-10-6) | OEL | 8 hours | 1920 mg/m³ | | EU limits |
| | OEL | 8 hours | 1000 ppm | | |
| acetone (CAS: 67-64-1) | OEL | 8 hours | 1210 mg/m³ | | EU limits |
| | OEL | 8 hours | 500 ppm | | |
| xylene (mixture of isomers) (CAS: 1330-20-7) | OEL | 8 hours | 221 mg/m³ | | EU limits |
| | OEL | 8 hours | 50 ppm | | |
| | OEL | Short-term | 442 mg/m³ | | |
| | OEL | Short-term | 100 ppm | | |
| ethylbenzene (CAS: 100-41-4) | OEL | 8 hours | 442 mg/m³ | | EU limits |
| | OEL | 8 hours | 100 ppm | | |
| | OEL | Short-term | 884 mg/m³ | | |
| | OEL | Short-term | 200 ppm | | |
| 5-methylhexan-2-one (CAS: 110-12-3) | OEL | 8 hours | 95 mg/m³ | | EU limits |
| | OEL | 8 hours | 20 ppm | | |

**European Union**

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|---|---|---|---|---|---|
| 4-methylpentan-2-one (CAS: 108-10-1) | OEL | 8 hours | 83 mg/m³ | | EU limits |
| | OEL | 8 hours | 20 ppm | | |
| | OEL | Short-term | 208 mg/m³ | | |
| | OEL | Short-term | 50 ppm | | |
| 1,2,4-trimethylbenzene (CAS: 95-63-6) | OEL | 8 hours | 100 mg/m³ | | EU limits |
| | OEL | 8 hours | 20 ppm | | |

**United Kingdom of Great Britain and Northern Ireland**

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|---|---|---|---|---|---|
| dimethyl ether (CAS: 115-10-6) | WEL | 8 hours | 766 mg/m³ | | GBR |
| | WEL | 15 minutes | 958 mg/m³ | | |
| | WEL | 8 hours | 400 ppm | | |
| | WEL | 15 minutes | 500 ppm | | |
| acetone (CAS: 67-64-1) | WEL | 8 hours | 1210 mg/m³ | | GBR |
| | WEL | 15 minutes | 3620 mg/m³ | | |
| | WEL | 8 hours | 500 ppm | | |
| | WEL | 15 minutes | 1500 ppm | | |
| n-butyl acetate (CAS: 123-86-4) | WEL | 8 hours | 724 mg/m³ | | GBR |
| | WEL | 15 minutes | 966 mg/m³ | | |
| | WEL | 8 hours | 150 ppm | | |
| | WEL | 15 minutes | 200 ppm | | |
| xylene (mixture of isomers) (CAS: 1330-20-7) | WEL | 8 hours | 220 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |
| | WEL | 15 minutes | 441 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |

**United Kingdom of Great Britain and Northern Ireland**

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|---|---|---|---|---|---|
| xylene (mixture of isomers) (CAS: 1330-20-7) | WEL | 8 hours | 50 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |
| | WEL | 15 minutes | 100 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| ethylbenzene (CAS: 100-41-4) | WEL | 8 hours | 441 mg/m³ | | Gestis |
| | WEL | Short-term | 552 mg/m³ | | |
| | WEL | 8 hours | 100 ppm | | |
| | WEL | Short-term | 125 ppm | | |
| 5-methylhexan-2-one (CAS: 110-12-3) | WEL | 8 hours | 95 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |
| | WEL | 15 minutes | 475 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| | WEL | 8 hours | 20 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| | WEL | 15 minutes | 100 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| 4-methylpentan-2-one (CAS: 108-10-1) | WEL | 8 hours | 208 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |

**United Kingdom of Great Britain and Northern Ireland**

| Substance name (component) | Type | Time of exposure | Value | Note | Source |
|---|---|---|---|---|---|
| 4-methylpentan-2-one (CAS: 108-10-1) | WEL | 15 minutes | 416 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | GBR |
| | WEL | 8 hours | 50 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |
| | WEL | 15 minutes | 100 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | |

**8.2. Exposure controls**

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

**Eye/face protection**

Protective goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Material of gloves: Butyl rubber. Rubber (natural, latex). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.
Other protection: protective workwear.

**Respiratory protection**

Under regular circumstances it is not necessary. Mask with a filter in a poorly ventilated environment. Filter A/P2.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Appearance | aerosol |
| Physical state | liquid at 20°C |
| color | colourless |
| Odour | characteristic |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | data not available |
| Flash point | data not available |
| Evaporation rate | data not available |
| Flammability (solid, gas) | Extremely flammable aerosol. |
| Upper/lower flammability or explosive limits | |

| | |
|---|---|
| flammability limits | data not available |
| explosive limits | |
| bottom | 2.6 % |
| upper | 18.6 % |
| Vapour pressure | 5200 hPa at 20 °C |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | almost insoluble |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Explosive properties | The product does not have explosive properties but can be explosive when blended with air. |
| Oxidising properties | data not available |

data not available

**9.2. Other information**

| | |
|---|---|
| Density | 0.83 g/cm$^3$ at 20 °C |
| ignition temperature | 235 °C |
| solid content (dry matter) | 16.3 % volume |
| Max. VOC content in the product in its ready to use condition | 687.6 g/l |

Product is not selfigniting.

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

not available

**10.2. Chemical stability**

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

not available

**10.5. Incompatible materials**

not available

**10.6. Hazardous decomposition products**

Unknown.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

acetone

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 5800 mg/kg | | Rat | |
| Dermal | $LD_{50}$ | 20000 mg/kg | | Rabbit | |

xylene (mixture of isomers)

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 8700 mg/kg | | Rat | |
| Dermal | $LD_{50}$ | >2000 mg/kg | | Rabbit | |
| Inhalation | $LC_{50}$ | 6350 mg/l | 4 hour | Rat | |

**Skin corrosion/irritation**
Based on available data the classification criteria are not met.

**Serious eye damage/irritation**
Causes serious eye irritation.

**Respiratory or skin sensitisation**
May cause an allergic skin reaction. Based on available data the classification criteria are not met.

**Germ cell mutagenicity**
Based on available data the classification criteria are not met.

**Carcinogenicity**
Based on available data the classification criteria are not met.

**Reproductive toxicity**
Based on available data the classification criteria are not met.

**Toxicity for specific target organ - single exposure**
May cause drowsiness or dizziness.

**Toxicity for specific target organ - repeated exposure**
Based on available data the classification criteria are not met.

**Aspiration hazard**
Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Acute toxicity**
Data for the mixture are not available.

xylene (mixture of isomers)

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $EC_{50}$ | 3.82 mg/l | 48 hour | Invertebrates (Daphnia magna) | |
| $LC_{50}$ | 7.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| $EC_{50}$ | >175 mg/l | 24 hour | Bacteria | |
| $EC_{50}$ | 4.7 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |

### 12.2. Persistence and degradability
Data not available.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Additional ecological information:
General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

**Packaging waste type code**

15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

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**SECTION 14: Transport information**

**14.1. UN number**

UN 1950

**14.2. UN proper shipping name**

AEROSOLS

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

2 Gases

**14.4. Packing group**

not available

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

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

not available

**Additional information**

| | |
|---|---|
| Hazard identification No. | (Kemler Code) |
| UN number | **1950** |
| Classification code | 5F |
| Safety signs | 2.1 |


**Road transport - ADR**

| | |
|---|---|
| Limited quantities | 1L |
| Excepted quantities | E0 |
| Transport category | 2 |
| Tunnel restriction code | (D) |

**Marine transport - IMDG**

| | |
|---|---|
| EmS (emergency plan) | F-D, S-U |
| Marine Pollutant | No |

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

**15.2. Chemical safety assessment**

not available

## SECTION 16: Other information

**A list of standard risk phrases used in the safety data sheet**

| | |
|---|---|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

**Guidelines for safe handling used in the safety data sheet**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe spray. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P410+P412 | Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to in accordance with national regulations. |

**A list of additional standard phrases used in the safety data sheet**

| | |
|---|---|
| EUH 066 | Repeated exposure may cause skin dryness or cracking. |
| EUH 204 | Contains isocyanates. May produce an allergic reaction. |

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

| | |
|---|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| $EC_{50}$ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| $IC_{50}$ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| $LC_{50}$ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| $LD_{50}$ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |

| | |
|---|---|
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |

| | |
|---|---|
| Acute Tox. | Acute toxicity |
| Aerosol | Aerosol |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment |
| Asp. Tox. | Aspiration hazard |
| Eye Irrit. | Eye irritation |
| Flam. Gas | Flammable gas |
| Flam. Liq. | Flammable liquid |
| Press. Gas | Gases under pressure |
| Resp. Sens. | Respiratory sensitization |
| Skin Corr. | Skin corrosion |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

2, 3, 8, 11, 12, 15, 16

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.