# SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

## Rozpuszczalnik do lakieru PVB

| | | | |
|---|---|---|---|
| Creation date | 20th February 2023 | | |
| Revision date | 24th January 2025 | Version | 6.0 |

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

**1.1. Product identifier** — Rozpuszczalnik do lakieru PVB

Substance / mixture — mixture

UFI — JF30-60K4-600V-99JV

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

**Mixture's intended use**

Solvent.

**Main intended use**

PC-TEC-21 — Solvents and extraction agents

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

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

**Manufacturer**

| | |
|---|---|
| Name or trade name | AG TermoPasty Grzegorz Gąsowski |
| Address | Kolejowa 33 E, Sokoły, 18-218<br>Poland |
| Identification number (CRN) | 200133730 |
| VAT Reg No | PL9661767714 |
| Phone | +48 86 274 13 42 |
| E-mail | msds@termopasty.pl |
| Web address | www.termopasty.com |

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

| | |
|---|---|
| Name | AG TermoPasty Grzegorz Gąsowski |
| E-mail | msds@termopasty.pl |

**1.4. Emergency telephone number**

European emergency number: 112

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**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

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

The mixture is classified as dangerous.

Flam. Liq. 2, H225
Skin Irrit. 2, H315
Eye Dam. 1, H318
STOT SE 3, H336

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

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

May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye damage.

**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

acetone
isopropanol
butan-1-ol

**Hazard statements**

H225 — Highly flammable liquid and vapour.



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| | |
|---|---|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |

**Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear eye protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |

**Label elements for packages not exceeding 125 ml**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

acetone
isopropanol
butan-1-ol

**Hazard statements**

| | |
|---|---|
| H318 | Causes serious eye damage. |

**Precautionary statements**

| | |
|---|---|
| P280 | Wear eye protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. 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. Does not contain any PMT or vPvM components.

## 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: 606-001-00-8<br>CAS: 67-64-1<br>EC: 200-662-2<br>Registration number: 01-2119471330-49-XXXX | acetone | ≤60 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066 | 1 |



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| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---|---|---|---|---|
| Index: 603-117-00-0<br>CAS: 67-63-0<br>EC: 200-661-7<br>Registration number: 01-2119457558-25-XXXX | isopropanol | ≤25 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 | |
| Index: 603-004-00-6<br>CAS: 71-36-3<br>EC: 200-751-6<br>Registration number: 01-2119484630-38-XXXX | butan-1-ol | ≤15 | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335, H336 | |

**Notes**

1 *A substance for which exposure limits are set.*

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. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

**If in eyes**

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

**If swallowed**

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

**If inhaled**

Inhaling vapours can cause corrosion of the breathing system. May cause drowsiness or dizziness.

**If on skin**

Causes skin irritation.

**If in eyes**

Causes serious eye damage.

**If swallowed**

Corrosion of the digestion system can occur.

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

Symptomatic treatment.



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## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

**Unsuitable extinguishing media**

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

## SECTION 6: Accidental release measures

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

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

**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. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

| Content | Packaging type | Material of package |
|---|---|---|
| 500 ml | bottle | HDPE |

**The specific requirements or rules relating to the substance/mixture**

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

**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.



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**European Union** **Commission Directive 2000/39/EC**

| Substance name (component) | Type | Value |
|---|---|---|
| acetone (CAS: 67−64−1) | OEL 8 hours | 1210 mg/m³ |
| | OEL 8 hours | 500 ppm |

**DNEL**

| **acetone** | | | |
|---|---|---|---|
| Workers / consumers | Route of exposure | Value | Effect |
| Workers | Inhalation | 2420 mg/m³ | Acute effects local |
| Workers | Dermal | 186 mg/kg bw/day | Chronic effects systemic |
| Workers | Inhalation | 1210 mg/m³ | Chronic effects systemic |
| Consumers | Dermal | 62 mg/kg bw/day | Chronic effects systemic |
| Consumers | Inhalation | 200 mg/m³ | Chronic effects systemic |
| Consumers | Oral | 62 mg/kg bw/day | Chronic effects systemic |

| **butan-1-ol** | | | |
|---|---|---|---|
| Workers / consumers | Route of exposure | Value | Effect |
| Workers | Inhalation | 10 mg/m³ | Chronic effects systemic |
| Consumers | Inhalation | 55 mg/m³ | Chronic effects systemic |
| Consumers | Oral | 3.125 mg/kg | Chronic effects systemic |

| **isopropanol** | | | |
|---|---|---|---|
| Workers / consumers | Route of exposure | Value | Effect |
| Workers | Inhalation | 500 mg/m³ | Chronic effects systemic |
| Workers | Dermal | 888 mg/kg bw/day | Chronic effects systemic |
| Consumers | Inhalation | 89 mg/m³ | Chronic effects systemic |
| Consumers | Dermal | 319 mg/kg bw/day | Chronic effects systemic |
| Consumers | Oral | 26 mg/kg bw/day | Chronic effects systemic |

**PNEC**

| **acetone** | |
|---|---|
| Route of exposure | Value |
| Drinking water | 10.6 mg/l |
| Marine water | 1.06 mg/l |
| Sea sediments | 30.4 mg/kg of dry substance of sediment |
| Freshwater sediment | 30.4 mg/kg of dry substance of sediment |
| Soil (agricultural) | 29.5 mg/kg of dry substance of soil |
| Microorganisms in sewage treatment | 100 mg/l |

| **butan-1-ol** | |
|---|---|
| Route of exposure | Value |
| Drinking water | 0.082 mg/l |
| Marine water | 0.0082 mg/l |
| Water (intermittent release) | 2.25 mg/l |
| Freshwater sediment | 0.178 mg/kg |
| Sea sediments | 0.0178 mg/kg |
| Soil (agricultural) | 0.015 mg/kg of dry substance of soil |



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| isopropanol | |
|---|---|
| Route of exposure | Value |
| Drinking water | 140.9 mg/l |
| Marine water | 140.9 mg/l |
| Freshwater sediment | 552 mg/kg of dry substance |
| Freshwater environment | 552 mg/kg of dry substance |
| Soil (agricultural) | 28 mg/kg of dry substance |

**8.2. Exposure controls**

Follow the usual measures intended for health protection at work and especially for good ventilation.

**Eye/face protection**

Protective goggles or face shield (based on the nature of the work performed).

**Skin protection**

Hand protection: Protective gloves resistant to the product. 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. Contaminated skin should be washed thoroughly.

**Respiratory protection**

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

**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**

| | |
|---|---|
| Physical state | liquid |
| Colour | colourless |
| Odour | data not available |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | Highly flammable liquid and vapour. |
| Lower and upper explosion limit | data not available |
| Flash point | <23 °C |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | non-polar/aprotic |
| Kinematic viscosity | data not available |
| Solubility in water | data not available |
| Solubility in fats | data not available |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | data not available |
| Relative vapour density | data not available |
| Particle characteristics | data not available |

**9.2. Other information**

| | |
|---|---|
| Evaporation rate | data not available |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

not available



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**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

The product is stable and no degradation occurs under normal use.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents.

**10.6. Hazardous decomposition products**

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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 | Exposure time | Species | Sex |
| Oral | $LD_{50}$ | 5800 mg/kg | | Rat (Rattus norvegicus) | |
| Inhalation (vapor) | $LC_{50}$ | 76000 mg/m³ | 4 hours | Rat (Rattus norvegicus) | |
| Dermal | $LD_{50}$ | 7400 mg/kg | | Rabbit | |
| Dermal | $LD_{50}$ | 7400 mg/kg | | Guinea-pig (Cavia aperea f. porcellus) | |

| **butan-1-ol** | | | | | |
|---|---|---|---|---|---|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Oral | $LD_{50}$ | 2292 mg/kg | | Rat (Rattus norvegicus) | |
| Dermal | $LD_{50}$ | 3430 mg/kg | | Rabbit | |
| Inhalation | $LC_{50}$ | 17.76 mg/l | 4 hours | Rat (Rattus norvegicus) | |

| **isopropanol** | | | | | |
|---|---|---|---|---|---|
| Route of exposure | Parameter | Value | Exposure time | Species | Sex |
| Inhalation | $LC_{50}$ | >5 mg/l | 4 hours | Rat | |
| Oral | $LD_{50}$ | >2000 mg/kg | | Rat | |
| Skin | $LD_{50}$ | >2000 mg/kg | | Rabbit | |

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

| **acetone** | | | | |
|---|---|---|---|---|
| Route of exposure | Result | Method | Exposure time | Species |
| Eye | | OECD 405 | | |



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**Respiratory or skin sensitisation**
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**
Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

**11.2. Information on other hazards**

**Endocrine disrupting properties**
Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

**Other information**
not available

## SECTION 12: Ecological information

**12.1. Toxicity**
not available

**Acute toxicity**

| **acetone** | | | | |
|---|---|---|---|---|
| Parameter | Value | Exposure time | Species | Environment |
| $LC_{50}$ | 8800 mg/l | 48 hours | Invertebrates | Fresh water |
| $LC_{50}$ | 2100 mg/l | 24 hours | Invertebrates | Salt water |
| LOEC | 530 mg/l | 8 days | Algae and other aquatic plants | Fresh water |
| NOEC | 430 mg/l | 96 hours | Algae and other aquatic plants | Salt water |
| $LC_{50}$ | 5540 mg/l | 96 hours | Fish (Oncorhynchus mykiss) | Fresh water |
| $LC_{50}$ | 11000 mg/l | 96 hours | Fish | Salt water |

| **butan-1-ol** | | | | |
|---|---|---|---|---|
| Parameter | Value | Exposure time | Species | Environment |
| $LC_{50}$ | 1376 mg/l | 96 hours | Fish (Pimephales promelas) | |
| $EC_{50}$ | 1328 mg/l | 48 hours | Daphnia (Daphnia magna) | |



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| butan-1-ol | | | | |
|---|---|---|---|---|
| Parameter | Value | Exposure time | Species | Environment |
| $EC_{50}$ | 4390 mg/l | 17 hours | Microorganisms (Pseudomonas putida) | |
| $EC_{50}$ | 225 mg/l | 96 hours | Algae and other aquatic plants (Pseudokirchneriella subcapitata) | |
| NOEC | 4.1 mg/l | 21 days | Daphnia (Daphnia magna) | |
| $EC_{50}$ | 18 mg/l | 21 days | Daphnia (Daphnia magna) | |

| isopropanol | | | | |
|---|---|---|---|---|
| Parameter | Value | Exposure time | Species | Environment |
| $LC_{50}$ | >100 mg/l | 48 hours | Fish (Leuciscus idus) | |
| $EC_{50}$ | >100 mg/l | 48 hours | Daphnia (Daphnia magna) | |
| $EC_{50}$ | >100 mg/l | 72 hours | Algae (Scenedesmus subspicatus) | |

**Chronic toxicity**

| acetone | | | | |
|---|---|---|---|---|
| Parameter | Value | Exposure time | Species | Environment |
| NOEC | 2212 mg/l | 24 hours | Invertebrates (Daphnia magna) | |

**12.2. Persistence and degradability**

Not available.

**12.3. Bioaccumulative potential**

Not available.

**12.4. Mobility in soil**

Not available.

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

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

**12.6. Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

**12.7. Other adverse effects**

Not available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. Perfectly cleaned containers can be submitted for recycling.

**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.



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## SECTION 14: Transport information

**14.1. UN number or ID number**
UN 1993

**14.2. UN proper shipping name**
FLAMMABLE LIQUID, N.O.S. (Acetone)

**14.3. Transport hazard class(es)**
3 Flammable liquids

**14.4. Packing group**
III

**14.5. Environmental hazards**
not relevant

**14.6. Special precautions for user**
Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**
not relevant

**Additional information**

| | |
|---|---|
| Hazard identification No. | 30 |
| UN number | 1993 |
| Classification code | F1 |
| Safety signs | 3 |




| | |
|---|---|
| Tunnel restriction code | (D/E) |

## 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 as amended. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**15.2. Chemical safety assessment**
A chemical safety assessment has not been carried out (mixture).

## SECTION 16: Other information

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

| | |
|---|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |



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| | |
|---|---|
| H336 | May cause drowsiness or dizziness. |

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

| | |
|---|---|
| P280 | Wear eye protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |

**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.

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

| | |
|---|---|
| Acute Tox. | Acute toxicity |
| 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 |
| 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 |
| EuPCS | European Product Categorisation System |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| 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 |
| log Kow | Octanol-water partition coefficient |
| NOEC | No observed effect concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, bioaccumulative and toxic |
| PMT | Persistent, mobile and toxic |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| Skin Irrit. | Skin irritation |
| STOT SE | Specific target organ toxicity - single exposure |
| 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 |



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| | |
|---|---|
| VOC | Volatile organic compounds |
| vPvB | Very persistent and very bioaccumulative |
| vPvM | Very persistent and very mobile |

**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)**

The version 6.0 replaces the SDS version from Friday, 19 January 2024. Changes were made in sections 2, 11, 12, 13 and 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.



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