# PUP 750 - B2

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 27/08/2024 Revision date: 08/04/2025 Supersedes version of: 27/08/2024 Version: 2.0

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Trade name | : | PUP 750 - B2 |
| UFI | : | NGV0-40N4-200Y-HKW0 |
| Article number | : | 00009292 |
| Vaporizer | : | Aerosol |

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

#### Relevant identified uses

Intended for general public

| | | |
|---|---|---|
| Industrial/Professional use spec | : | As from 24 August 2023 adequate training is required before industrial or professional use |
| Use of the substance/mixture | : | Polyurethane, polyurethane foam |

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

**Manufacturer**
fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal
Germany
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35127 Padova Z.I. Sud
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sercli@fischer.it, www.fischer.it

### 1.4. Emergency telephone number

Emergency number : +49(0)6132-84463 (24h)

| Country/Area | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| Italy | Centro Antiveleni di Bergamo<br>Azienda Ospedaliera Papa Giovanni XXII | Piazza OMS - Organizzazione Mondiale della Sanità, 1<br>24127 Bergamo | 800 88 33 00 | |
| Italy | Centro Antiveleni di Milano<br>Ospedale Niguarda Ca' Granda | Piazza Ospedale Maggiore 3<br>20162 Milan | 02 6610 1029 | |
| Italy | Centro Antiveleni di Roma<br>CAV Policlinico "A. Gemelli", Dipartimento di Tossicologia Clinica<br>Universita Cattolica del Sacro Cuore | Largo Agostino Gemelli, 8<br>00168 Rome | 06 305 4343 | |
| Italy | Centro Antiveleni di Roma<br>CAV Policlinico "Umberto I", Università di Roma | Viale del Policlinico, 155<br>00161 Rome | 06 4997 8000 | |
| Italy | Centro Antiveleni di Firenze<br>Az. Osp. "Careggi" U.O. Tossicologia Medica, S.O.D. di Tossicologia Clinicaicologia Clinica | Largo Brambilla, 3<br>50134 Florence | 055 794 7819 | |
| Italy | Centro Antiveleni di Pavia<br>CAV Centro Nazionale di Informazione Tossicologica, Istituti Clinici Scientifici Maugeri Spa | Via Salvatore Maugeri, 10<br>27100 Pavia | 03 822 4444 | |
| Italy | Centro Antiveleni di Roma<br>CAV “Osp. Pediatrico Bambino Gesù” Dip. Emergenza e Accettazione DEA | Piazza Sant’Onofrio, 4<br>00165 Rome | 06 6859 3726 | |
| Italy | Centro Antiveleni di Foggia<br>Az. Osp. Univ. Foggia | V.le Luigi Pinto, 1<br>71122 Foggia | 800 183 459 | |
| Italy | Centro Antiveleni di Napoli<br>Az. Osp. "A. Cardarelli" | Via A. Cardarelli, 9<br>80131 Naples | 081 54 53 333 | |
| Italy | Centro Antiveleni di Verona<br>Azienda Ospedaliera Integrata Verona | Piazzale Aristide Stefani, 1<br>37126 Verona | 800 011 858 | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Aerosol 1 | H222;H229 |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Resp. Sens. 1 | H334 |
| Skin Sens. 1 | H317 |
| Carc. 2 | H351 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |

Full text of hazard classes, H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

Pressurised container: May burst if heated. Extremely flammable aerosol. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02 GHS07 GHS08

Signal word (CLP) : Danger

Contains : Isocyanic acid, polymethylenepolyphenylene ester; Reaction products of phosphoryl trichloride and 2-methyloxirane

Hazard statements (CLP) :
H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
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.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) :
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing/eye protection/face 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.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 - Dispose of contents/container to Collection point.
P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

EUH-statements : EUH204 - Contains isocyanates. May produce an allergic reaction.

Extra phrases : Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
Without adequate ventilation formation of explosive mixtures may be possible.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
As from 24 August 2023 adequate training is required before industrial or professional use.

### 2.3. Other hazards

PBT: not relevant – no registration required
vPvB: not relevant – no registration required
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Isocyanic acid, polymethylenepolyphenylene ester | CAS-No.: 9016-87-9<br>EC-No.: 618-498-9 | ≥ 40 | Acute Tox. 4 (Inhalation:vapour), H332 (ATE=1,5 mg/l/4h)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373<br>EUH204 |
| Reaction products of phosphoryl trichloride and 2-methyloxirane | CAS-No.: 1244733-77-4<br>EC-No.: 807-935-0<br>REACH-no: 01-2119486772-26 | ≥ 10 – < 20 | Acute Tox. 4 (Oral), H302 (ATE=632 mg/kg)<br>Carc. 2, H351<br>Aquatic Chronic 3, H412 |
| dimethyl ether<br>substance with national workplace exposure limit(s) (IT);<br>substance with a Community workplace exposure limit | CAS-No.: 115-10-6<br>EC-No.: 204-065-8<br>EC Index-No.: 603-019-00-8<br>REACH-no: 01-2119472128-37 | ≥ 5 – < 10 | Flam. Gas 1, H220<br>Press. Gas (Liq.), H280 |
| Halogenated polyetherpolyol | CAS-No.: 68441-62-3<br>REACH-no: 01-2119533103-55 | ≥ 1 – < 2,5 | Acute Tox. 4 (Oral), H302 (ATE=1337 mg/kg bodyweight)<br>Eye Irrit. 2, H319 |

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.
Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water and soap. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Wash out mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

**For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

### 7.3. Specific end use(s)

PU installation foams.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**National occupational exposure and biological limit values**

| dimethyl ether (115-10-6) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | Dimethylether |
| IOEL TWA | 1920 mg/m³ |
| | 1000 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| **Italy - Occupational Exposure Limits** | |
| Local name | Etere dimetilico |
| OEL TWA | 1920 mg/m³ |
| | 1000 ppm |
| Regulatory reference | Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i. |

## 8.2. Exposure controls

### Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

### Personal protection equipment

**Personal protective equipment symbol(s):**



### Eye and face protection

**Eye protection:**
Safety glasses

### Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Protective gloves

| Hand protection | | | | | |
|---|---|---|---|---|---|
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Disposable gloves | Butyl rubber | 6 (> 480 minutes) | > 0,7 | | EN 374-2, EN 374-3 |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | > 0,7 | | EN 374-2, EN 374-3 |

### Respiratory protection

**Respiratory protection:**
In the event of insufficient ventilation: Use self-contained breathing apparatus

| Respiratory protection | | | |
|---|---|---|---|
| **Device** | **Filter type** | **Condition** | **Standard** |
| | Type A - High-boiling (>65 °C) organic compounds | | EN 140 |
| | Filter AX (brown) | | EN 14387 |

### Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Various colours. |
| Appearance | : | Aerosol. |
| Odour | : | characteristic. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Aerosol Not applicable |
| Flammability | : | Aerosol Not applicable |
| Explosive properties | : | Pressurised container: May burst if heated. |
| Lower explosion limit | : | 1,7 vol % |
| Upper explosion limit | : | 18,6 vol % |
| Flash point | : | Aerosol Not applicable |
| Auto-ignition temperature | : | > 200 °C |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Not miscible. Reacts with water. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | 6 bar |
| Vapour pressure at 50°C | : | Not available |
| Density | : | ≈ 1 g/cm³ |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

**Information with regard to physical hazard classes**

| | | |
|---|---|---|
| % of flammable ingredients | : | 30 % |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong acids. Oxidizing agent. Strong bases. Water. alcohols. Amines.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Inhalation:dust,mist: Harmful if inhaled. |

| PUP 750 - B2 | |
|---|---|
| ATE CLP (dust,mist) | 1,875 mg/l/4h |

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| LD50 oral rat | > 10000 mg/kg (OECD 401 method) |
| LD50 dermal rabbit | > 9400 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat | 1,5 mg/l |
| LC50 Inhalation - Rat (Vapours) | (OECD 403 method) |

| dimethyl ether (115-10-6) | |
|---|---|
| LC50 Inhalation - Rat [ppm] | 164000 ppm |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| LD50 oral rat | 632 mg/kg |
| LD50 dermal rat | > 2000 mg/kg (OECD 402 method) |
| LC50 Inhalation - Rat | > 7 mg/l/4h |

| Halogenated polyetherpolyol (68441-62-3) | |
|---|---|
| LD50 oral rat | 1337 mg/kg (OECD 401 method) |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| IARC group | 3 - Not classifiable |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 329 mg/kg bodyweight |

Reproductive toxicity : Not classified

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| LOAEL (animal/female, F0/P) | ≈ 99 mg/kg bodyweight |
| NOAEL (animal/male, F0/P) | ≈ 85 mg/kg bodyweight |

STOT-single exposure : May cause respiratory irritation.

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| NOAEL (oral, rat, 28 days) | 100 mg/kg bodyweight/day |

Aspiration hazard : Not classified

| PUP 750 - B2 | |
|---|---|
| Vaporizer | Aerosol |

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| Viscosity, kinematic | > 161,551 mm²/s |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| Viscosity, kinematic | 20 °C |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| LC50 - Fish [1] | > 1000 mg/l Brachydanio rerio (zebra-fish) |
| EC50 - Crustacea [1] | > 1000 mg/l Daphnia magna (Water flea) |
| ErC50 algae | > 1640 mg/l Scenedesmus subspicatus |
| NOEC chronic crustacea | > 10 mg/l Daphnia magna (Water flea) |

| dimethyl ether (115-10-6) | |
|---|---|
| LC50 - Fish [1] | > 4,1 g/l Poecilia reticulata (Guppy) |
| EC50 - Crustacea [1] | > 4,4 g/l Daphnia magna (Water flea) |
| EC50 96h - Algae [1] | 154917 mg/l |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| LC50 - Fish [1] | 51 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | 131 mg/l Daphnia magna (Water flea) |
| EC50 72h - Algae [1] | 82 mg/l Pseudokirchneriella subcapitata |
| NOEC (chronic) | 32 mg/l Daphnia magna (Water flea) |

| Halogenated polyetherpolyol (68441-62-3) | |
|---|---|
| LC50 - Fish [1] | 560 mg/l Poecilia reticulata (Guppy) |
| EC50 - Crustacea [1] | 520 mg/l |
| EC50 96h - Algae [1] | > 1000 mg/l |

### 12.2. Persistence and degradability

| PUP 750 - B2 | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| dimethyl ether (115-10-6) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| Halogenated polyetherpolyol (68441-62-3) | |
|---|---|
| Persistence and degradability | Not rapidly degradable |

### 12.3. Bioaccumulative potential

| Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) | |
|---|---|
| Bioconcentration factor (BCF REACH) | < 14 Cyprinus carpio (Common carp) |
| Partition coefficient n-octanol/water (Log Pow) | 10,46 |

| dimethyl ether (115-10-6) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0,1 |

| Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4) | |
|---|---|
| Bioconcentration factor (BCF REACH) | 2,68 |

| Halogenated polyetherpolyol (68441-62-3) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0,03 – 3,3 Source: ECHA Chem |

### 12.4. Mobility in soil

| dimethyl ether (115-10-6) | |
|---|---|
| Mobility in soil | 27 |

### 12.5. Results of PBT and vPvB assessment

| PUP 750 - B2 |
|---|
| PBT: not relevant – no registration required |
| vPvB: not relevant – no registration required |

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.
Additional information : Special waste.
European List of Waste (LoW, EC 2000/532) : 08 05 01* - waste isocyanates
16 05 04* - gases in pressure containers (including halons) containing dangerous substances
17 06 04 - insulation materials other than those mentioned in 17 06 01 and 17 06 03

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR | IMDG | IATA |
|---|---|---|
| **14.1. UN number or ID number** | | |
| UN 1950 | UN 1950 | UN 1950 |
| **14.2. UN proper shipping name** | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable |
| **Transport document description** | | |
| UN 1950 AEROSOLS, 2.1, (D) | UN 1950 AEROSOLS, 2.1 | UN 1950 Aerosols, flammable, 2.1 |
| **14.3. Transport hazard class(es)** | | |
| 2.1 | 2.1 | 2.1 |
|  |  |  |
| **14.4. Packing group** | | |
| Not applicable | Not applicable | Not applicable |
| **14.5. Environmental hazards** | | |
| Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-D<br>EmS-No. (Spillage): S-U | Dangerous for the environment: No |

| ADR | IMDG | IATA |
|---|---|---|
| No supplementary information available | | |

### 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | 5F |
| Special provisions (ADR) | : | 190, 327, 344, 625 |
| Limited quantities (ADR) | : | 1l |
| Excepted quantities (ADR) | : | E0 |
| Packing instructions (ADR) | : | P207, LP200 |
| Special packing provisions (ADR) | : | PP87, RR6, L2 |
| Mixed packing provisions (ADR) | : | MP9 |
| Transport category (ADR) | : | 2 |
| Special provisions for carriage - Packages (ADR) | : | V14 |
| Tunnel restriction code (ADR) | : | D |

**Transport by sea**

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 63, 190, 277, 327, 344, 381, 959 |
| Packing instructions (IMDG) | : | P207, LP200 |
| Special packing provisions (IMDG) | : | PP87, L2 |

**Air transport**

| | | |
|---|---|---|
| PCA packing instructions (IATA) | : | 203 |
| PCA max net quantity (IATA) | : | 75kg |
| CAO packing instructions (IATA) | : | 203 |
| CAO max net quantity (IATA) | : | 150kg |
| Special provisions (IATA) | : | A145, A167, A802 |
| ERG code (IATA) | : | 10L |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

**EU-Regulations**

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (2024/590)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

**Council Regulation (EC) for the control of dual-use items**

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

**Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (EC 273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes | | |
|---|---|---|
| **Section** | **Changed item** | **Comments** |
| | Supersedes version of | **Modified** |
| | Revision date | **Modified** |
| 3 | Composition/information on ingredients | **Modified** |

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |

| Abbreviations and acronyms: | |
|---|---|
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disruptor |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aerosol 1 | Aerosol, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1 | Flammable gases, Category 1 |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |
| Resp. Sens. 1 | Respiratory sensitisation, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| 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. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|---|---|
| Aerosol 1 | H222;H229 | On basis of test data |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 | Calculation method |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Resp. Sens. 1 | H334 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|---|---|
| Carc. 2 | H351 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| STOT RE 2 | H373 | Calculation method |

The classification complies with : ATP 12

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.