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

**1.1. Product identifier**
TEROSON PU 9500 AE

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Filling and isolation foam

**1.3. Details of the supplier of the safety data sheet**
Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

**1.4. Emergency telephone number**
The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (CLP):**

| | |
|---|---|
| Aerosol | Category 1 |
| H222 Extremely flammable aerosol. | |
| H229 Pressurized container: May burst if heated. | |
| Acute toxicity | Category 4 |
| H332 Harmful if inhaled. | |
| Route of Exposure: Inhalation | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye irritation | Category 2 |
| H319 Causes serious eye irritation. | |
| Respiratory sensitizer | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Carcinogenicity | Category 2 |
| H351 Suspected of causing cancer. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H335 May cause respiratory irritation. | |
| Target organ: respiratory tract irritation | |
| Specific target organ toxicity - repeated exposure | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure. | |

### 2.2. Label elements

**Label elements (CLP):**

**Hazard pictogram:**

**Contains**

1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit

Diphenylmethane diisocyanate, isomers and homologues

**Signal word:**

Danger

**Hazard statement:**

H222 Extremely flammable aerosol.
H229 Pressurized 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.

| | |
|---|---|
| **Supplemental information** | As from 24 August 2023 adequate training is required before industrial or professional use.<br>Further information: https://www.feica.eu/PUinfo |
| **Precautionary statement: Prevention** | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P260 Do not breathe spray.<br>P280 Wear protective gloves/eye protection. |
| **Precautionary statement: Response** | P308+P313 IF exposed or concerned: Get medical advice/attention.<br>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor. |
| **Precautionary statement: Storage** | P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50.DEGREE.C/122.DEGREE.F. |

**2.3. Other hazards**

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
The solvent vapors are heavier than air and may collect in high concentrations at floor level.
The aerosol container is under pressure. Do not expose to high temperatures.

**Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3, 4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | 40- 60 % | Acute Tox. 4, Inhalation, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Resp. Sens. 1, H334<br>STOT SE 3, H335<br>Carc. 2, H351<br>STOT RE 2, H373 | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4<br>01-2119486772-26 | 10- 20 % | Acute Tox. 4, Oral, H302<br>Aquatic Chronic 3, H412 | | |
| Isobutane<br>75-28-5<br>200-857-2<br>01-2119485395-27 | 5- < 10 % | Flam. Gas 1A, H220<br>Press. Gas Liquef. Gas, H280 | | |
| dimethyl ether<br>115-10-6<br>204-065-8<br>01-2119472128-37 | 5- < 10 % | Flam. Gas 1A, H220<br>Press. Gas Liquef. Gas, H280 | | EU OEL |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | 2,5- < 5 % | Carc. 2, H351<br>Acute Tox. 4, Inhalation, H332<br>STOT RE 2, H373<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Skin Irrit. 2, H315<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317 | Eye Irrit. 2; H319; C >= 5 %<br>Skin Irrit. 2; H315; C >= 5 %<br>Resp. Sens. 1; H334; C >= 0,1 %<br>STOT SE 3; H335; C >= 5 %<br>=====<br>inhalation:ATE = 1,5 mg/l;dust/mist | |
| Ethane-1,2-diol<br>107-21-1<br>203-473-3<br>01-2119456816-28 | 2,5- < 5 % | Acute Tox. 4, Oral, H302<br>STOT RE 2, Oral, H373 | oral:ATE = 500 mg/kg | EU OEL |
| Propane<br>74-98-6<br>200-827-9<br>01-2119486944-21 | 2,5- < 5 % | Flam. Gas 1A, H220<br>Press. Gas H280 | | |

**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.**
**For full text of the H - statements and other abbreviations see section 16 "Other information".**

The hazard classification of this product is based solely on the mixture present within the aerosol, excluding the propellant gases. The information provided in Section 3 is based on the combination of the mixture and propellant gases.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:
Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

Inhalation:
Fresh air, oxygen supply, warmth; seek specialist medical attention.
Delayed effects possible after inhalation.

Skin contact:
IF ON SKIN: Wash with plenty of soap and water.
In case of adverse health effects seek medical advice.

Eye contact:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:
not relevant.

**4.2. Most important symptoms and effects, both acute and delayed**
SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

**4.3. Indication of any immediate medical attention and special treatment needed**
See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
**Suitable extinguishing media:**
Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**
Water jet (solvent-containing product).

**5.2. Special hazards arising from the substance or mixture**
In case of fire toxic gases can be released.

**5.3. Advice for firefighters**
Wear self-contained breathing apparatus.
Wear protective equipment.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective equipment.
Avoid contact with skin and eyes.
Keep unprotected persons away.
Danger of slipping on spilled product.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Avoid open flames and sources of ignition.
Use only non-sparking tools.
Use explosion proof electric equipment.
Ground/bond container and receiving equipment.
Take precautionary measures against static discharge.

Hygiene measures:

Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.
Take off contaminated clothing and wash before reuse.

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

Ensure good ventilation/extraction.
Store in sealed original container protected against moisture.
Store in a cool, frost-free place.
Store in a cool, well-ventilated place.
Storage at 15 to 25°C is recommended.
Keep away from heat and direct sunlight.

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

Filling and isolation foam

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Germany

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Dimethyl ether<br>115-10-6<br>[DIMETHYLETHER] | 1.000 | 1.920 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Dimethyl ether<br>115-10-6 | 1.000 | 1.900 | Exposure limit(s): | 8 | TRGS 900 |
| Dimethyl ether<br>115-10-6 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Isobutane<br>75-28-5 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Isobutane<br>75-28-5 | 1.000 | 2.400 | Exposure limit(s): | 4 | TRGS 900 |
| Diphenylmethane diisocyanate, isomers and homologs<br>9016-87-9 | | | STEL (Short Term Exposure Limit) factor: | 1<br>Substance listed with both Peak factor and STEL factor. The Peak factor is supplied with the AGW values. | TRGS 900 |
| Diphenylmethane diisocyanate, isomers and homologs<br>9016-87-9 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| Diphenylmethane diisocyanate, isomers and homologs<br>9016-87-9 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Diphenylmethane diisocyanate, isomers and homologs<br>9016-87-9 | | 0,05 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Ethane-1,2-diol<br>107-21-1<br>[ETHYLENE GLYCOL] | 40 | 104 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Ethane-1,2-diol<br>107-21-1<br>[ETHYLENE GLYCOL] | 20 | 52 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Ethane-1,2-diol<br>107-21-1 | | | Skin designation: | Can be absorbed through the skin. | TRGS 900 |
| Ethane-1,2-diol<br>107-21-1 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Ethane-1,2-diol<br>107-21-1 | 10 | 26 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Propane<br>74-98-6 | 1.000 | 1.800 | Exposure limit(s): | 4 | TRGS 900 |
| Propane<br>74-98-6 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Polyethylene gycol<br>25322-68-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Polyethylene gycol<br>25322-68-3 | | 1.000 | Exposure limit(s): | 8<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see | TRGS 900 |

| | | | | | |
|---|---|---|---|---|---|
| | | | | Number 2.7). | |
| Polyethylene gycol<br>25322-68-3 | | 200 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |

**Predicted No-Effect Concentration (PNEC):**

| **Name on list** | **Environmental Compartment** | **Exposure period** | **Value** | | | | **Remarks** |
|---|---|---|---|---|---|---|---|
| | | | **mg/l** | **ppm** | **mg/kg** | **others** | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | aqua (marine water) | | 0,032 mg/l | | | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | oral | | | | 11,6 mg/kg | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | Soil | | | | 0,34 mg/kg | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | sediment (marine water) | | | | 1,15 mg/kg | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | Sewage treatment plant | | 19,1 mg/l | | | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | aqua (freshwater) | | 0,32 mg/l | | | | |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | sediment (freshwater) | | | | 11,5 mg/kg | | |
| Dimethyl ether<br>115-10-6 | aqua (freshwater) | | 0,155 mg/l | | | | |
| Dimethyl ether<br>115-10-6 | sediment (freshwater) | | | | 0,681 mg/kg | | |
| Dimethyl ether<br>115-10-6 | Soil | | | | 0,045 mg/kg | | |
| Dimethyl ether<br>115-10-6 | sewage treatment plant (STP) | | 160 mg/l | | | | |
| Dimethyl ether<br>115-10-6 | aqua (marine water) | | 0,016 mg/l | | | | |
| Dimethyl ether<br>115-10-6 | aqua (intermittent releases) | | 1,549 mg/l | | | | |
| Dimethyl ether<br>115-10-6 | sediment (marine water) | | | | 0,069 mg/kg | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | Workers | inhalation | Long term exposure - systemic effects | | 8,2 mg/m3 | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | Workers | inhalation | Acute/short term exposure - systemic effects | | 22,6 mg/m3 | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | Workers | dermal | Long term exposure - systemic effects | | 2,91 mg/kg | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | General population | inhalation | Long term exposure - systemic effects | | 1,45 mg/m3 | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | General population | inhalation | Acute/short term exposure - systemic effects | | 5,6 mg/m3 | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | General population | dermal | Long term exposure - systemic effects | | 1,04 mg/kg | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | General population | oral | Long term exposure - systemic effects | | 0,52 mg/kg | |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | General population | oral | Acute/short term exposure - systemic effects | | 2 mg/kg | |
| Ethane-1,2-diol 107-21-1 | Workers | dermal | Long term exposure - systemic effects | | 106 mg/kg | |
| Ethane-1,2-diol 107-21-1 | Workers | inhalation | Long term exposure - local effects | | 35 mg/m3 | |
| Ethane-1,2-diol 107-21-1 | General population | dermal | Long term exposure - systemic effects | | 53 mg/kg | |
| Ethane-1,2-diol 107-21-1 | General population | inhalation | Long term exposure - local effects | | 7 mg/m3 | |

**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Engineering controls:
In case of aerosol forming ensure sufficient suction and ventilation.

Respiratory protection:
In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).
This recommendation should be matched to local conditions.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Wear protective equipment.
Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Delivery form | aerosol |
| Colour | silver, grey |
| Odor | ether-like |
| Physical state | aerosol |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | Not available. |
| Initial boiling point | Not applicable, Determination technically not possible |
| Flammability | Extremely flammable aerosol. |
| Explosive limits | |
| lower | 1,5 %(V); |
| upper | 26 %(V);<br>Values referring to propellant |
| Flash point | Not applicable to aerosols. |
| Auto-ignition temperature | > 225 °C (> 437 °F) Values referring to propellant |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product reacts with water. |
| Viscosity (kinematic) | Not available. |
| Viscosity, dynamic<br>() | Not available. |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Partially miscible |
| Partition coefficient: n-octanol/water | Not applicable<br>Mixture |
| Vapour pressure<br>(55 °C (131 °F)) | 7500 mbar |
| Vapour pressure | 5500 - 6000 mbar |
| Vapour pressure<br>(20 °C (68 °F)) | 5100 hPa |
| Density<br>(23 °C (73.4 °F)) | 1,05 g/cm3 no method / method unknown |
| Relative vapour density:<br>(20 °C) | 1,6 |
| Particle characteristics | Not applicable<br>Product is a liquid |

**9.2. Other information**

**9.2.1. Information with regard to physical hazard classes**

| | |
|---|---|
| Aerosols: | Classified as Aerosol category 1 because it contains more than 1 % (by mass) flammable components or has a heat of combustion of at least 20 kJ/g and is not submitted to the flammability classification procedures |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reaction with water, alcohols, amines.
Reacts with water: Pressure built up in closed vessel (CO2).
Oxidizers.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
Humidity
Temperatures over appr. 50 °C
Heat, flames, sparks and other sources of ignition.

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
At higher temperatures isocyanate may be released.
Carbon dioxide is generated under contact with moisture, leading to pressure in the cans. Danger of cans bursting!

## SECTION 11: Toxicological information

**General toxicological information:**
An allergic reaction cannot be excluded after repeated skin contact.

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

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy) ethyl] 2-(2-hydroxypropyl) ester, polymers wit 2639874-15-8 | LD50 | > 10.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | LD50 | 632 mg/kg | rat | EU Method B.1 (Acute Toxicity (Oral)) |
| Diphenylmethane diisocyanate, isomers and homologues 9016-87-9 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Ethane-1,2-diol 107-21-1 | Acute toxicity estimate (ATE) | 500 mg/kg | | Expert judgement |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy) ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | LD50 | > 9.400 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | LD50 | > 9.400 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethane-1,2-diol<br>107-21-1 | LD50 | 10.600 mg/kg | rabbit | not specified |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy) ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | LC50 | 1,5 mg/l | dust/mist | 4 h | rat | Expert judgement |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | LC50 | > 7 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Isobutane<br>75-28-5 | LC50 | 260200 ppm | gas | 4 h | mouse | not specified |
| dimethyl ether<br>115-10-6 | LC50 | 164000 ppm | gas | 4 h | rat | not specified |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | Acute toxicity estimate (ATE) | 1,5 mg/l | dust/mist | 4 h | | Expert judgement |
| Propane<br>74-98-6 | LC50 | > 800000 ppm | gas | 15 min | rat | not specified |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Ethane-1,2-diol<br>107-21-1 | not irritating | 20 h | rabbit | BASF Test |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | irritating | | human | Weight of evidence |
| Ethane-1,2-diol<br>107-21-1 | not irritating | | rabbit | BASF Test |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | sensitising | Skin sensitisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Ethane-1,2-diol<br>107-21-1 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | positive | mammalian cell gene mutation assay | with | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Isobutane 75-28-5 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Isobutane 75-28-5 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| dimethyl ether 115-10-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| dimethyl ether 115-10-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| dimethyl ether 115-10-6 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Diphenylmethane diisocyanate, isomers and homologues 9016-87-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Ethane-1,2-diol 107-21-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propane 74-98-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propane 74-98-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | negative | oral: gavage | | rat | not specified |
| Isobutane 75-28-5 | negative | oral: feed | | Drosophila melanogaster | not specified |
| Isobutane 75-28-5 | negative | inhalation: gas | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| dimethyl ether 115-10-6 | negative | inhalation: gas | | Drosophila melanogaster | equivalent or similar to OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Dros. melanog.) |
| Ethane-1,2-diol 107-21-1 | negative | oral: feed | | rat | Chromosome Aberration Test |
| Propane 74-98-6 | negative | | | Drosophila melanogaster | not specified |
| Propane 74-98-6 | negative | inhalation: gas | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|---|---|---|---|---|---|
| dimethyl ether 115-10-6 | not carcinogenic | inhalation | 2 y 6 h/d, 5 d/w | rat | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide 1244733-77-4 | NOAEL P ca. 85 mg/kg | Two generation study | oral: feed | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Isobutane 75-28-5 | NOAEL P 21,4 mg/l<br><br>NOAEL F1 21,4 mg/l | screening | inhalation: gas | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| dimethyl ether 115-10-6 | NOAEL P 2.5 % | other | inhalation: gas | rat | other guideline: |
| dimethyl ether 115-10-6 | NOAEL P 1.6 % | screening | inhalation: gas | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Propane 74-98-6 | NOAEL P 21,6 mg/l<br><br>NOAEL F1 21,6 mg/l | screening | inhalation: gas | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | NOAEL 100 mg/kg | oral: gavage | 28 d<br>diaily | rat | EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)) |
| Isobutane<br>75-28-5 | NOAEL 9000 ppm | inhalation: gas | 28 d<br>6 h/d, 7 d/w | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| dimethyl ether<br>115-10-6 | NOAEL 47,106 mg/l<br>NOAEL 2.5 % | inhalation: gas | 2 y<br>6 h/d; 5 d/w | rat | equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | NOAEL 0,0002 mg/l | inhalation: aerosol | 2 y<br>6 h per d, 5 d per week | rat | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Ethane-1,2-diol<br>107-21-1 | NOAEL 150 mg/kg | oral: feed | 16 w<br>daily | rat | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Propane<br>74-98-6 | | inhalation: gas | 28 d<br>6 h/d, 7 d/w | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

**General ecological information:**
Do not empty into drains, soil or bodies of water.

**12.1. Toxicity**

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | LC50 | > 1.000 mg/l | 96 h | not specified | not specified |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | LC50 | 56,2 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | other guideline: |
| dimethyl ether<br>115-10-6 | LC50 | > 4.000 mg/l | 96 h | Poecilia reticulata | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | LC50 | > 1.000 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethane-1,2-diol<br>107-21-1 | LC50 | 72.860 mg/l | 96 h | Pimephales promelas | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| Ethane-1,2-diol<br>107-21-1 | NOEC | 15.380 mg/l | 7 d | Pimephales promelas | other guideline: |

**Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | EC50 | > 1.000 mg/l | 48 h | not specified | not specified |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | EC50 | 131 mg/l | 48 h | Daphnia magna | not specified |
| dimethyl ether<br>115-10-6 | EC50 | > 4.000 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | EC50 | > 1.000 mg/l | 24 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethane-1,2-diol<br>107-21-1 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity (aquatic invertebrates):**

The table below presents the data of the classified substances present in the mixture.

| **Hazardous substances**<br>**CAS-No.** | **Value type** | **Value** | **Exposure time** | **Species** | **Method** |
|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | NOEC | > 100 mg/l | | | not specified |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | NOEC | 32 mg/l | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | NOEC | 10 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Ethane-1,2-diol<br>107-21-1 | NOEC | 8.590 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | EC50 | > 1.000 mg/l | 72 h | not specified | not specified |
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | NOEC | > 100 mg/l | | not specified | not specified |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | EC50 | 82 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | NOEC | 13 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| dimethyl ether<br>115-10-6 | EC50 | > 1.000 mg/l | 72 h | not specified | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | EC50 | > 1.640 mg/l | 72 h | Desmodesmus subspicatus | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethane-1,2-diol<br>107-21-1 | EC50 | > 6.500 - 13.000 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethane-1,2-diol<br>107-21-1 | NOEC | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity (microorganisms):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | EC 50 | 784 mg/l | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| dimethyl ether<br>115-10-6 | EC10 | > 1.600 mg/l | 30 min | Pseudomonas putida | DIN 38412, part 27 (Bacterial oxygen consumption test) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | EC50 | > 100 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Ethane-1,2-diol<br>107-21-1 | EC20 | > 1.995 mg/l | 30 min | activated sludge, domestic | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

**12.2. Persistence and degradability**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 1-[2-(2-hydroxyethoxy)ethyl] 2-(2-hydroxypropyl) ester, polymers wit<br>2639874-15-8 | not readily biodegradable. | | < 60 % | | OECD 301 A - F |
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | not readily biodegradable. | aerobic | 14 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Isobutane<br>75-28-5 | readily biodegradable | aerobic | 71,43 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| dimethyl ether<br>115-10-6 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | not inherently biodegradable | aerobic | 0 % | 28 d | OECD Guideline 302 C (Inherent Biodegradability: Modified MITI Test (II)) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | not readily biodegradable. | not specified | 0 % | 28 d | OECD 301 A - F |
| Ethane-1,2-diol<br>107-21-1 | readily biodegradable | aerobic | > 90 - 100 % | 10 d | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| Propane<br>74-98-6 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |

**12.3. Bioaccumulative potential**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|---|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | 0,8 - < 14 | 42 d | | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| Diphenylmethane diisocyanate, isomers and homologues<br>9016-87-9 | 200 | | | Cyprinus carpio | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

| **Hazardous substances**<br>**CAS-No.** | **LogPow** | **Temperature** | **Method** |
|---|---|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | 2,68 | 30 °C | EU Method A.8 (Partition Coefficient) |
| Isobutane<br>75-28-5 | 2,88 | 20 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| dimethyl ether<br>115-10-6 | 0,07 | 25 °C | QSAR (Quantitative Structure Activity Relationship) |
| Ethane-1,2-diol<br>107-21-1 | -1,36 | | QSAR (Quantitative Structure Activity Relationship) |

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

The table below presents the data of the classified substances present in the mixture.

| **Hazardous substances**<br>**CAS-No.** | **PBT / vPvB** |
|---|---|
| Phosphoric trichloride, reaction products with propylene oxide<br>1244733-77-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isobutane<br>75-28-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| dimethyl ether<br>115-10-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Ethane-1,2-diol<br>107-21-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propane<br>74-98-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:
In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.
080409

## SECTION 14: Transport information

**14.1. UN number or ID number**

| | |
|---|---|
| ADR | 1950 |
| RID | 1950 |
| ADN | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR | AEROSOLS |
| RID | AEROSOLS |
| ADN | AEROSOLS |
| IMDG | AEROSOLS |
| IATA | Aerosols, flammable |

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

| | |
|---|---|
| ADR | 2.1 |
| RID | 2.1 |
| ADN | 2.1 |
| IMDG | 2.1 |
| IATA | 2.1 |

**14.4. Packing group**

| | |
|---|---|
| ADR | |
| RID | |
| ADN | |
| IMDG | |
| IATA | |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

| | |
|---|---|
| ADR | not applicable<br>Tunnelcode: (D) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**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**

| | |
|---|---|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |
| VOC content (2010/75/EU) | 16,7 % |

**VOC Paints and Varnishes (EU):**

Product (sub)category: This product is not a subject of the Directive 2004/42/EC

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**National regulations/information (Germany):**

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )
Classification according to AwSV, Annex 1 (5.2)

BG regulations, rules, infos:

BG data sheet: BGI 621 Solvents
BG data sheet: BGI 524 Hazardous substances: polyurethane production and processing / isocyanates (M 044)

Storage class according to TRGS 510: 2B

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.
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.

| | |
|---|---|
| ED: | Substance identified as having endocrine disrupting properties |
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |

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