# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**XPU 18512 AM**
**Supercedes Date:** 20-Jan-2021

**Revision date** 22-Jul-2021
**Revision Number** 1.02

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

### 1.1. Product identifier

**Product Name** XPU 18512 AM
**Pure substance/mixture** Mixture

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

**Recommended use** Adhesive.
**Uses advised against** None known

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

**Company Name**
Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** +44 (1785) 272650
**Ireland** +353 (1) 8624900 (Monday- Friday 9am-5pm)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Serious eye damage/eye irritation** | Category 1 - (H318) |
| **Skin sensitisation** | Category 1A - (H317) |
| **Chronic aquatic toxicity** | Category 2 - (H411) |

### 2.2. Label elements

Contains 2-Ethyl-1,3-hexanediol, Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

**Signal word**
Danger

**Hazard statements**
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements - EU (§28, 1272/2008)**

P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/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
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage

### 2.3. Other hazards

Causes mild skin irritation.

**PBT & vPvB**
This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | EC No. | CAS No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH registration number |
|---|---|---|---|---|---|---|
| Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy- | - | 25190-06-1 | 10 - <20 | Aquatic Chronic 3 (H412) | | [7] |
| 2-Ethyl-1,3-hexanediol | 202-377-9 | 94-96-2 | 5 - <10 | Eye Dam. 1 (H318) | | 01-2119985706-21-XXXX |
| Diisopropylnaphthalene | 254-052-6 | 38640-62-9 | 1- <2.5 | Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) | | 01-2119565150-48-XXXX |
| Piperazine | 203-808-3 | 110-85-0 | 0.1 - <1 | Skin Corr. 1B (H314) Dam. 1 (H318) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Repr. 2 (H361fd) Flam. Sol. 1 (H228) | | 01-2119480384-35-XXXX |
| Quartz | 238-878-4 | 14808-60-7 | 0.1 - <1 | ^ | | [4] |
| 2-ethyl-2-(hydroxymethyl)propane-1,3-diol | 201-074-9 | 77-99-6 | 0.1 - <1 | Repr. 2 (H361fd) | | 01-2119486799-10-xxxx |
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | 605-296-0 | 162627-17-0 | 0.1 - <1 | Skin Sens. 1A (H317) | | 01-2119970640-38-XXXX |
| Propylene glycol monomethyl ether | 203-539-1 | 107-98-2 | 0.1 - <1 | STOT SE 3 (H336) Flam. Liq. 3 (H226) | | 01-2119457435-35-xxxx |

NOTE [4] - This substance is exempted from registration according to the provisions of Article 2(7)(a) and Annex IV of REACH
NOTE [5] - This substance is exempted from registration according to the provisions of Article 2(7)(a) and Annex V of REACH
NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

**Full text of H- and EUH-phrases: see section 16**
Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

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

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

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

**Specific hazards arising from the chemical** Product is or contains a sensitiser. May cause sensitisation by skin contact.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO2).

### 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## SECTION 6: Accidental release measures

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

| | |
|---|---|
| **Personal precautions** | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| **Other information** | Refer to protective measures listed in Sections 7 and 8. |
| **For emergency responders** | Use personal protection recommended in Section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | Prevent further leakage or spillage if safe to do so. |

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

| | |
|---|---|
| **Methods for containment** | Prevent further leakage or spillage if safe to do so. |
| **Methods for cleaning up** | Take up mechanically, placing in appropriate containers for disposal. |
| **Prevention of secondary hazards** | Clean contaminated objects and areas thoroughly observing environmental regulations. |

### 6.4. Reference to other sections

| | |
|---|---|
| **Reference to other sections** | See section 8 for more information. See section 13 for more information. |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | |
|---|---|
| **Advice on safe handling** | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash it before reuse. |
| **General hygiene considerations** | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. |

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

| | |
|---|---|
| **Storage Conditions** | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture. |

### 7.3. Specific end use(s)

**Specific use(s)**
Adhesive.

| | |
|---|---|
| **Risk Management Methods (RMM)** | The information required is contained in this Safety Data Sheet. |
| **Other information** | Observe technical data sheet. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | European Union | United Kingdom |
|---|---|---|
| Limestone<br>1317-65-3 | - | TWA: 10 mg/m³<br>TWA: 4 mg/m³<br>STEL: 30 mg/m³<br>STEL: 12 mg/m³ |
| Piperazine<br>110-85-0 | TWA: 0.1 mg/m³<br>STEL: 0.3 mg/m³ | TWA: 0.1 mg/m³<br>STEL: 0.3 mg/m³<br>Capable of causing occupational asthma |
| Quartz<br>14808-60-7 | TWA: 0.1 mg/m³ | TWA: 0.1 mg/m³ |
| 1,2-Propylene glycol<br>57-55-6 | - | TWA: 150 ppm<br>TWA: 474 mg/m³<br>TWA: 10 mg/m³<br>STEL: 450 ppm<br>STEL: 1422 mg/m³<br>STEL: 30 mg/m³ |
| Propylene glycol monomethyl ether<br>107-98-2 | TWA: 100 ppm<br>TWA: 375 mg/m³<br>STEL: 150 ppm<br>STEL: 568 mg/m³<br>* | TWA: 100 ppm<br>TWA: 375 mg/m³<br>STEL: 150 ppm<br>STEL: 560 mg/m³<br>Sk* |

**Derived No Effect Level (DNEL)** No information available

| **Derived No Effect Level (DNEL)** | | | |
|---|---|---|---|
| **2-Ethyl-1,3-hexanediol (94-96-2)** | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Systemic health effects<br>Long term | Dermal | 76.3 mg/kg bw/d | |
| worker<br>Systemic health effects<br>Short term | Dermal | 228.9 mg/kg bw/d | |

| **Diisopropylnaphthalene (38640-62-9)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term | Dermal | 4.3 mg/kg bw/d | |
| worker<br>Long term | Inhalation | 30 mg/m³ | |

| **Piperazine (110-85-0)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation | 0.1 mg/m³ | |
| worker<br>Long term<br>Local health effects | Inhalation | 0.3 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 0.014 mg/kg bw/d | |
| worker<br>Short term<br>Systemic health effects | Dermal | 0.042 mg/kg bw/d | |

| **Quartz (14808-60-7)** |
|---|
| **2-ethyl-2-(hydroxymethyl)propane-1,3-diol (77-99-6)** |

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|---|---|---|
| worker<br>Long term<br>Systemic health effects | Inhalation | 3.3 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 0.94 mg/kg bw/d | |

| **Propylene glycol monomethyl ether (107-98-2)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Short term<br>Systemic health effects | Inhalation | 553.5 mg/m³ | |
| worker<br>Short term<br>Local health effects | Inhalation | 553.5 mg/m³ | |
| worker<br>Long term<br>Systemic health effects | Dermal | 183 mg/kg bw/d | |
| worker<br>Long term<br>Systemic health effects | Inhalation | 369 mg/m³ | |

| **Derived No Effect Level (DNEL)** | | | |
|---|---|---|---|
| **2-Ethyl-1,3-hexanediol (94-96-2)** | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Oral | 0.17 mg/kg bw/d | |
| Consumer<br>Short term | Oral | 0.51 mg/kg bw/d | |
| Consumer<br>Long term<br>Systemic health effects | Dermal | 38.2 mg/kg bw/d | |
| Consumer<br>Short term<br>Systemic health effects | Dermal | 114.5 mg/kg bw/d | |

| **Diisopropylnaphthalene (38640-62-9)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term | Oral | 2.1 mg/kg bw/d | |
| Consumer<br>Long term | Dermal | 2.1 mg/kg bw/d | |
| Consumer<br>Long term | Inhalation | 7.4 mg/m³ | |

| **Piperazine (110-85-0)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Oral | 1.5 mg/kg bw/d | |

| **2-ethyl-2-(hydroxymethyl)propane-1,3-diol (77-99-6)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level | Safety factor |

| | | | |
|---|---|---|---|
| | | (DNEL) | |
| Consumer<br>Long term<br>Systemic health effects | Inhalation | 0.58 mg/m³ | |
| Consumer<br>Long term<br>Systemic health effects | Dermal | 0.34 mg/kg bw/d | |
| Consumer<br>Long term<br>Systemic health effects | Oral | 0.34 mg/kg bw/d | |

| **Propylene glycol monomethyl ether (107-98-2)** | | | |
|---|---|---|---|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Dermal | 78 mg/kg bw/d | |
| Consumer<br>Long term<br>Systemic health effects | Inhalation | 43.9 mg/m³ | |
| Consumer<br>Long term<br>Systemic health effects | Oral | 33 mg/kg bw/d | |

**Predicted No Effect Concentration (PNEC)** No information available.

| **Predicted No Effect Concentration (PNEC)** | |
|---|---|
| **2-Ethyl-1,3-hexanediol (94-96-2)** | |
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.1 mg/l |
| Marine water | 0.01 mg/l |
| Freshwater sediment | 1.6 mg/kg dry weight |
| Marine sediment | 0.16 mg/kg dry weight |
| Soil | 0.17 mg/kg dry weight |
| Microorganisms in sewage treatment | 3 mg/l |

| **Diisopropylnaphthalene (38640-62-9)** | |
|---|---|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 0.236 µg/l |
| Marine water | 0.0236 µg/l |
| Freshwater sediment | 0.853 mg/kg dry weight |
| Marine sediment | 0.085 mg/kg dry weight |
| Soil | 0.171 mg/kg dry weight |
| Microorganisms in sewage treatment | 0.15 mg/l |

| **Piperazine (110-85-0)** | |
|---|---|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 1.25 mg/l |
| Marine water | 0.125 mg/l |
| Microorganisms in sewage treatment | 54 mg/l |
| Freshwater sediment | 4.5 mg/kg dry weight |
| Marine sediment | 0.45 mg/kg dry weight |
| Soil | 11.5 mg/kg dry weight |

| **Propylene glycol monomethyl ether (107-98-2)** | |
|---|---|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Freshwater | 10 mg/l |
| Marine water | 1 mg/l |
| Sewage treatment plant | 100 mg/l |
| Freshwater sediment | 52.3 mg/kg dry weight |
| Marine sediment | 5.2 mg/kg dry weight |

| | |
|---|---|
| Soil | 4.59 mg/kg dry weight |

**8.2. Exposure controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374. Recommended Use:. Nitrile rubber. Viton™. Unsuitable protective clothing. Natural rubber. Disposable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 480 min.

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

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Viscous |
| **Colour** | Grey |
| **Odour** | No information available |
| **Odour threshold** | No information available |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | No data available | |
| **pH (as aqueous solution)** | No data available | |
| **Melting point / freezing point** | No data available | |
| **Initial boiling point and boiling range** | No data available | |
| **Flash point** | > 100 °C | |
| **Evaporation rate** | No data available | |
| **Flammability** | Not applicable for liquids . | |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Vapour pressure** | No data available | |
| **Relative vapour density** | No data available | |
| **Relative density** | No data available | |
| **Water solubility** | Insoluble in water | |
| **Solubility(ies)** | No data available | |
| **Partition coefficient** | No data available | |
| **Autoignition temperature** | No data available | |
| **Decomposition temperature** | No data available | |
| **Kinematic viscosity** | No data available | |
| **Dynamic viscosity** | 20000 - 32000 mPa s | @ 23 °C |
| **Explosive properties** | No data available | |
| **Oxidising properties** | No data available | |

**9.2. Other information**

| | |
|---|---|
| **Solid content (%)** | No information available |
| **VOC Content (%)** | |
| **Density** | 1.67 g/cm³ |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Protect from moisture.

**10.5. Incompatible materials**

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None under normal use conditions.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

**Numerical measures of toxicity**

**Acute toxicity**
**The following values are calculated based on chapter 3.1 of the GHS document**
**ATEmix (dermal)** 22,838.60 mg/kg

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy - 25190-06-1 | >11000 mg/Kg (Rattus) | >2000 mg/Kg (Rattus) | >11 mg/l/4h (Rattus) |
| 2-Ethyl-1,3-hexanediol 94-96-2 | >2000 mg/kg (Rattus) | > 2000 mg/kg (Oryctolagus cuniculus) | >3.8 mg/L (Rattus) 4 h |
| Diisopropylnaphthalene 38640-62-9 | LD50 = 4130 mg/kg (Rattus) OECD 401 | > 4500 mg/kg (Rattus) | >5.64 mg/L (Rattus) 4 h |
| Piperazine 110-85-0 | =2500 mg/kg (Rattus) | = 3500 mg/kg (Oryctolagus cuniculus) | |
| Quartz 14808-60-7 | >2000 mg/kg (Rattus) | | |
| 2-ethyl-2-(hydroxymethyl)propane-1,3-diol 77-99-6 | =14700 mg/kg (Rattus) | >10000 mg/Kg (Oryctolagus cuniculus) | >0.29 mg/L (Rattus) 4 h |
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine 162627-17-0 | LD50 >5000 mg/kg (rattus) | | |
| Propylene glycol monomethyl ether 107-98-2 | >3500 mg/Kg (Rattus) | >2000 mg/Kg (Rattus) | >7559 ppm (Rattus) 6 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** May cause skin irritation. Classification based on data available for ingredients.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitisation** May cause sensitisation by skin contact.

**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.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | European Union |
|---|---|
| Piperazine 110-85-0 | Repr. 2 |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

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

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|
| Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy- 25190-06-1 | - | - | - | >10 - <100 mg/l (Daphnia) | | |
| 2-Ethyl-1,3-hexanediol 94-96-2 | >100 mg/l (Desmodesmus subspicatus) | LD50=624 mg/L (Ictalurus punctatus) | - | >100 mg/l (Daphnia magnia) | | |
| Diisopropylnaphthalene 38640-62-9 | NOEC (72h) = 0.15 mg/l (Desmodesmus subspicatus) DIN 38412 part 9 | >0.5 mg/l | - | EL50 (48h) = 1.7 mg/l (Daphnia magna) OECD 202 | | |
| Piperazine 110-85-0 | - | LC50: >10000mg/L (96h, Lepomis macrochirus) | EC50 = 430 mg/L 30 min | EC50 96 h = 31 mg/L (Daphnia magna) | | |
| 2-ethyl-2-(hydroxymethyl)propane-1,3-diol 77-99-6 | - | LC50: =21700mg/L (48h, Cyprinodon) | - | EC50: 10330 - 16360mg/L (48h, Daphnia magna) EC50: =13000mg/L (48h, Daphnia species) | | |
| Propylene glycol monomethyl ether 107-98-2 | - | LC50: 4600 - 10000mg/L (96h, Leuciscus idus) LC50: =20.8g/L (96h, Pimephales promelas) | - | EC50: =23300mg/L (48h, Daphnia magna) | | |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

| Component Information | | | |
|---|---|---|---|
| **2-Ethyl-1,3-hexanediol (94-96-2)** | | | |
| **Method** | **Exposure time** | **Value** | **Results** |
| OECD Test No. 301E: Ready Biodegradability: Modified OECD Screening Test (TG 301 E) | 27 days | 93% | Readily biodegradable |

| **Piperazine (110-85-0)** | | | |
|---|---|---|---|
| **Method** | **Exposure time** | **Value** | **Results** |
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | 65% | Readily biodegradable |

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|---|---|---|
| Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-hydroxy- 25190-06-1 | 34 | - |
| 2-Ethyl-1,3-hexanediol 94-96-2 | 3 | - |
| Diisopropylnaphthalene 38640-62-9 | 6 | 770 |
| Piperazine 110-85-0 | - | 3.9 |
| Quartz 14808-60-7 | - | 0 |
| 2-ethyl-2-(hydroxymethyl)propane-1,3-diol 77-99-6 | -2.37 | 0.14 |
| Propylene glycol monomethyl ether 107-98-2 | -0.437 | 2 |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment**

| Chemical name | PBT and vPvB assessment |
|---|---|
| 2-Ethyl-1,3-hexanediol 94-96-2 | The substance is not PBT / vPvB |
| Diisopropylnaphthalene 38640-62-9 | The substance is handled as if it were a PBT / vPvB |
| Piperazine 110-85-0 | The substance is not PBT / vPvB |
| 2-ethyl-2-(hydroxymethyl)propane-1,3-diol 77-99-6 | The substance is not PBT / vPvB<br>PBT assessment does not apply |
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine 162627-17-0 | The substance is not PBT / vPvB |
| Propylene glycol monomethyl ether | The substance is not PBT / vPvB |

| | |
|---|---|
| 107-98-2 | |

**12.6. Other adverse effects**

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Waste codes / waste designations according to EWC / AVV** 15 01 10*: Packaging containing residues of or contaminated by dangerous substances. 16 03 03* inorganic wastes containing hazardous substances. 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

**European Waste Catalogue** 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10*: Packaging containing residues of or contaminated by dangerous substances

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 Proper Shipping Name** | Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic) |
| **14.3 Transport hazard class(es)** | 9 |
| **Labels** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic), 9, III, (-) |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special Provisions** | 274, 335, 601, 375 |
| **Classification code** | M6 |
| **Tunnel restriction code** | (-) |
| **Limited Quantity (LQ)** | 5 L |
| **ADR Hazard Id (Kemmler Number)** | 90 |

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 Proper Shipping Name** | Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic), 9, III, Marine Pollutant |
| **14.5 Marine pollutant** | P |

| | |
|---|---|
| **14.6 Special Provisions** | 274, 335, 969 |
| **Limited Quantity (LQ)** | 5 L |
| **EmS-No** | F-A, S-F |
| **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** | Not applicable |

**Air transport (ICAO-TI / IATA-DGR)**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3082 |
| **14.2 Proper Shipping Name** | Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic) |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | III |
| **Description** | UN3082, Environmentally hazardous substances, liquid, n.o.s (Diisopropylnaphthalene, Solvent naphtha, petroleum, light aromatic), 9, III |
| **14.5 Environmental hazards** | Yes |
| **14.6 Special Provisions** | A97, A158, A197 |
| **Limited Quantity (LQ)** | 30 kg G |
| **ERG Code** | 9L |

## Section 15: REGULATORY INFORMATION

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

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)**

**SVHC: Substances of Very High Concern for Authorisation:**
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Substance subject to authorisation per REACH Annex XIV**
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

**Dangerous substance category per Seveso Directive (2012/18/EU)**
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**
Not applicable

**Persistent Organic Pollutants**
Not applicable

**National regulations**

**15.2. Chemical safety assessment**

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

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

**Full text of H-Statements referred to under section 3**
H226 - Flammable liquid and vapour
H228 - Flammable solid
H304 - May be fatal if swallowed and enters airways
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

**Legend**

| | |
|---|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| * | Skin designation |
| SVHC | Substance(s) of Very High Concern |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| vPvB | Very Persistent and very Bioaccumulative (vPvB) Chemicals |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| EWC | European Waste Catalogue |

**Key literature references and sources for data**
No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 22-Jul-2021

**Indication of changes**

**Revision note** Not applicable.

**Training Advice** When working with hazardous materials, regular training of operators is required by law

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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**End of Safety Data Sheet**