# SAFETY DATA SHEET

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

### 1.1. Product identifier

| | |
|---|---|
| **Trade name or designation of the mixture** | ALU HITEMP PRO |
| **Registration number** | - |
| **Synonyms** | None. |
| **Product code** | BDS001910AE |
| **Issue date** | 22-December-2022 |
| **Version number** | 1.0 |
| **Revision date** | 22-December-2022 |

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

| | |
|---|---|
| **Identified uses** | Anti Corrosion Products |
| **Uses advised against** | None known. |

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

| | |
|---|---|
| **Company name** | CRC Industries Europe bv |
| **Address** | Touwslagerstraat 1<br>9240 Zele<br>Belgium |
| **Telephone** | +32(0)52/45.60.11 |
| **Fax** | +32(0)52/45.00.34 |
| **E-mail** | hse@crcind.com |
| **Website** | www.crcind.com |

**1.4. Emergency telephone number** Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

| | | |
|---|---|---|
| **Physical hazards** | | |
| Aerosols | Category 1 | H222 - Extremely flammable aerosol.<br>H229 - Pressurized container: May burst if heated. |
| **Health hazards** | | |
| Serious eye damage/eye irritation | Category 2 | H319 - Causes serious eye irritation. |
| Specific target organ toxicity - single exposure | Category 3 narcotic effects | H336 - May cause drowsiness or dizziness. |

### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** 2-Methoxy-1-methylethyl acetate, acetone; propan-2-one; propanone, butan-1-ol; n-butanol, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, n-butyl acetate

**Hazard pictograms**

**Signal word** Danger

**Hazard statements**

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurized container: May burst if heated. |
| H319 | Causes serious eye irritation. |

H336 May cause drowsiness or dizziness.

**Precautionary statements**

**Prevention**

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing mist/vapours.
P271 Use only outdoors or in a well-ventilated area.

**Response** Not assigned.

**Storage**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** EUH066 - Repeated exposure may cause skin dryness or cracking.

Dir. 2004/42/EC on the limitation of emmissions of volatile organic compounds (VOC) of organic solvents in certain paints and varnishes and vehicle refinishing products: Cat.II B(e) VOC max 840 g/L < 675 g/L

**2.3. Other hazards** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General information**

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|---|---|---|---|---|
| Dimethyl ether | 25 - 50 | 115-10-6<br>204-065-8 | 01-2119472128-37 | 603-019-00-8 | # |
| **Classification:** Press. Gas;H280 | | | | | |
| 2-Methoxy-1-methylethyl acetate | 5 - 15 | 108-65-6<br>203-603-9 | 01-2119475791-29 | 607-195-00-7 | # |
| **Classification:** Flam. Liq. 3;H226, STOT SE 3;H336 | | | | | |
| acetone; propan-2-one; propanone | 5 - 10 | 67-64-1<br>200-662-2 | 01-2119471330-49 | 606-001-00-8 | # |
| **Classification:** Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336 | | | | | |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 1 - 5 | EC919-857-5<br>919-857-5 | 01-2119463258-33 | - | |
| **Classification:** Flam. Liq. 3;H226, STOT SE 3;H336, Asp. Tox. 1;H304 | | | | | |
| n-butyl acetate | 1 - 5 | 123-86-4<br>204-658-1 | 01-2119485493-29 | 607-025-00-1 | # |
| **Classification:** Flam. Liq. 3;H226, STOT SE 3;H336 | | | | | |
| xylene | 1 - 5 | 1330-20-7<br>215-535-7 | 01-2119488216-32 | 601-022-00-9 | # |
| **Classification:** Flam. Liq. 3;H226, Acute Tox. 4;H312, Acute Tox. 4;H332, Skin Irrit. 2;H315 | | | | | |
| butan-1-ol; n-butanol | <2.5 | 71-36-3<br>200-751-6 | 01-2119484630-38 | 603-004-00-6 | # |
| **Classification:** Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336 | | | | | |

**List of abbreviations and symbols that may be used above**

ATE: Acute toxicity estimate.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Union workplace exposure limit(s).
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**4.1. Description of first aid measures**

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

**4.2. Most important symptoms and effects, both acute and delayed** May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

**General fire hazards** Extremely flammable aerosol.

**5.1. Extinguishing media**

**Suitable extinguishing media** Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Special fire fighting procedures** Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**For emergency responders** Keep unnecessary personnel away. Ventilate closed spaces before entering them. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will sediment in water systems. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)

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

Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**

**UK. EH40 Workplace Exposure Limits (WELs)**

| Components | Type | Value |
|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | STEL | 548 mg/m3 |
| | | 100 ppm |
| | TWA | 274 mg/m3 |
| | | 50 ppm |
| acetone; propan-2-one; propanone (CAS 67-64-1) | STEL | 3620 mg/m3 |
| | | 1500 ppm |
| | TWA | 1210 mg/m3 |
| | | 500 ppm |
| butan-1-ol; n-butanol (CAS 71-36-3) | STEL | 154 mg/m3 |
| | | 50 ppm |
| Dimethyl ether (CAS 115-10-6) | STEL | 958 mg/m3 |
| | | 500 ppm |
| | TWA | 766 mg/m3 |
| | | 400 ppm |
| n-butyl acetate (CAS 123-86-4) | STEL | 966 mg/m3 |
| | | 200 ppm |
| | TWA | 724 mg/m3 |
| | | 150 ppm |
| xylene (CAS 1330-20-7) | STEL | 441 mg/m3 |
| | | 100 ppm |
| | TWA | 220 mg/m3 |
| | | 50 ppm |

**Biological limit values**

**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| xylene (CAS 1330-20-7) | 650 mmol/mol | Methyl hippuric acid | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**

**General population**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | | | |
| Long-term, Local, Inhalation | 33 mg/m3 | 2 | respiratory tract irritation |
| Long-term, Systemic, Dermal | 320 mg/kg bw/day | 16.8 | Repeated dose toxicity |
| Long-term, Systemic, Inhalation | 33 mg/m3 | 2 | respiratory tract irritation |
| Long-term, Systemic, Oral | 36 mg/kg bw/day | 28 | Repeated dose toxicity |
| acetone; propan-2-one; propanone (CAS 67-64-1) | | | |
| Long-term, Systemic, Dermal | 62 mg/kg bw/day | 20 | |
| Long-term, Systemic, Inhalation | 200 mg/m3 | 5 | |

| | | | |
|---|---|---|---|
| Long-term, Systemic, Oral | 62 mg/kg bw/day | 2 | |
| Dimethyl ether (CAS 115-10-6) | | | |
| Long-term, Systemic, Inhalation | 471 mg/m3 | 25 | Repeated dose toxicity |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5) | | | |
| Long-term, Systemic, Dermal | 300 mg/kg | | |
| Long-term, Systemic, Inhalation | 900 mg/m3 | | |
| Long-term, Systemic, Oral | 300 mg/kg | | |
| n-butyl acetate (CAS 123-86-4) | | | |
| Long-term, Local, Inhalation | 35.7 mg/m3 | 12 | irritation respiratory tract |
| Short-term, Local, Inhalation | 300 mg/m3 | | irritation respiratory tract |
| Short-term, Systemic, Dermal | 6 mg/kg bw/day | 100 | Neurotoxicity |
| xylene (CAS 1330-20-7) | | | |
| Long-term, Local, Inhalation | 65.3 mg/m3 | 1.7 | irritation respiratory tract |
| Long-term, Systemic, Dermal | 125 mg/kg bw/day | 1.7 | Neurotoxicity |
| Short-term, Local, Inhalation | 260 mg/m3 | 1.7 | Neurotoxicity |

**Workers**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | | | |
| Long-term, Systemic, Dermal | 796 mg/kg bw/day | 10.08 | Repeated dose toxicity |
| Long-term, Systemic, Inhalation | 275 mg/m3 | 6 | respiratory tract irritation |
| Short-term, Local, Inhalation | 550 mg/m3 | 3 | respiratory tract irritation |
| acetone; propan-2-one; propanone (CAS 67-64-1) | | | |
| Long-term, Systemic, Dermal | 186 mg/kg bw/day | | |
| Long-term, Systemic, Inhalation | 1210 mg/m3 | | |
| Short-term, Local, Inhalation | 2420 mg/m3 | | |
| Dimethyl ether (CAS 115-10-6) | | | |
| Long-term, Systemic, Inhalation | 1894 mg/m3 | 12.5 | Repeated dose toxicity |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5) | | | |
| Long-term, Systemic, Dermal | 300 mg/kg | | |
| Short-term, Systemic, Inhalation | 1500 mg/m3 | | |
| n-butyl acetate (CAS 123-86-4) | | | |
| Long-term, Local, Inhalation | 300 mg/m3 | 6 | irritation respiratory tract |
| Long-term, Systemic, Dermal | 7 mg/kg bw/day | 25 | Repeated dose toxicity |
| Short-term, Systemic, Dermal | 11 mg/kg bw/day | 50 | Neurotoxicity |
| Short-term, Systemic, Inhalation | 600 mg/m3 | | irritation respiratory tract |
| xylene (CAS 1330-20-7) | | | |
| Long-term, Local, Inhalation | 221 mg/m3 | 1 | irritation respiratory tract |
| Long-term, Systemic, Dermal | 212 mg/kg bw/day | 1 | Neurotoxicity |
| Long-term, Systemic, Inhalation | 221 mg/m3 | 1 | Neurotoxicity |

**Predicted no effect concentrations (PNECs)**

| Components | Value | Assessment factor | Notes |
|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | | | |
| Freshwater | 0.635 mg/l | 100 | |
| Sediment (freshwater) | 3.29 mg/kg | | |
| Soil | 0.29 mg/kg | | |
| STP | 100 mg/l | 10 | |
| acetone; propan-2-one; propanone (CAS 67-64-1) | | | |
| Freshwater | 10.6 mg/l | 50 | |
| Marine water | 1.06 mg/l | 500 | |
| Sediment (freshwater) | 30.4 mg/kg | | |
| Sediment (marine water) | 3.04 mg/kg | | |
| Soil | 29.5 mg/kg | | |
| STP | 100 mg/l | 10 | |
| Dimethyl ether (CAS 115-10-6) | | | |
| Freshwater | 0.155 mg/l | 1000 | |
| Sediment (freshwater) | 0.681 mg/kg | | |
| Soil | 0.045 mg/kg | | |
| STP | 160 mg/l | 10 | |
| n-butyl acetate (CAS 123-86-4) | | | |
| Freshwater | 0.18 mg/l | 100 | |
| Sediment (freshwater) | 0.981 mg/kg | | |
| Soil | 0.09 mg/kg | | |

xylene (CAS 1330-20-7)

| | | |
|---|---|---|
| Freshwater | 0.327 mg/l | 1 |
| Sediment (freshwater) | 12.46 mg/kg | 1 |
| Soil | 2.31 mg/kg | 1 |
| STP | 6.58 mg/l | 1 |

**Exposure guidelines**

**UK EH40 WEL: Skin designation**

| | |
|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | Can be absorbed through the skin. |
| butan-1-ol; n-butanol (CAS 71-36-3) | Can be absorbed through the skin. |
| xylene (CAS 1330-20-7) | Can be absorbed through the skin. |

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

**Skin protection**

**- Hand protection** When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Suitable gloves can be recommended by the glove supplier. Nitrile gloves are recommended.

**- Other** Not available.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type AX)

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state** Liquid.

**Form** Aerosol.

**Colour** Grey.

**Odour** Characteristic odor.

**Odour threshold** Not available.

**pH** Not applicable.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** -35.0 °C (-31.0 °F) Closed cup

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Explosive limit - lower ( %)** 0.6 % estimated

**Explosive limit – upper (%)** 12.8 % estimated

**Vapour pressure** Not available.

**Vapour density** Not available.

**Relative density** 1.06 g/cm3 at 20°C

**Solubility(ies)**

| | |
|---|---|
| **Solubility (water)** | Insoluble in water |
| **Partition coefficient (n-octanol/water)** | Not applicable |
| **Auto-ignition temperature** | > 200 °C (> 392 °F) |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Explosive properties** | Not explosive. |
| **Oxidising properties** | Not oxidising. |

**9.2. Other information**

| | |
|---|---|
| **VOC** | 492 g/l |

## SECTION 10: Stability and reactivity

| | |
|---|---|
| **10.1. Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **10.2. Chemical stability** | Material is stable under normal conditions. |
| **10.3. Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **10.4. Conditions to avoid** | Avoid high temperatures. |
| **10.5. Incompatible materials** | Nitrates. |
| **10.6. Hazardous decomposition products** | Carbon oxides. |

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful. |
| **Skin contact** | Based on available data, the classification criteria are not met. |
| **Eye contact** | Causes serious eye irritation. |
| **Ingestion** | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |
| **Symptoms** | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |

**11.1. Information on toxicological effects**

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

| Product | Species | Test Results |
|---|---|---|
| ALU HITEMP PRO | | |
| **Acute** | | |
| **Dermal** | | |
| ATEmix | | 22022 mg/kg bw |
| **Oral** | | |
| ATEmix | | 40000 mg/kg bw |

| Components | Species | Test Results |
|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | 5100 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | 30 mg/l/4h |
| **Oral** | | |
| LD50 | Rat | 8532 mg/kg |
| acetone; propan-2-one; propanone (CAS 67-64-1) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | 15800 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| **Inhalation** | | |
| LC50 | Rat | 50.1 mg/l, 8 Hours |
| **Oral** | | |
| LD50 | Rat | 5800 mg/kg |

Dimethyl ether (CAS 115-10-6)

| | | |
|---|---|---|
| **Acute** | | |
| **Inhalation** | | |
| LC50 | Rat | 308.5 mg/l, 4 Hours |

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| | | |
|---|---|---|
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 5000 mg/kg |
| **Oral** | | |
| LD50 | Rat | > 5000 mg/kg |

n-butyl acetate (CAS 123-86-4)

| | | |
|---|---|---|
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 14122 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | 23.4 mg/l/4h |
| **Oral** | | |
| LD50 | Rat | 14000 mg/kg |

xylene (CAS 1330-20-7)

| | | |
|---|---|---|
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 12126 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | 27124 mg/m³ |
| **Oral** | | |
| LD50 | Rat | 3523 mg/kg |

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

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

**Respiratory sensitisation** Based on available data, the classification criteria are not met.

**Skin sensitisation** Based on available data, the classification criteria are not met.

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

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

**IARC Monographs. Overall Evaluation of Carcinogenicity**

xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

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

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not likely, due to the form of the product.

**Mixture versus substance information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Components | | Species | Test Results |
|---|---|---|---|
| 2-Methoxy-1-methylethyl acetate (CAS 108-65-6) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Algae | > 1000 mg/l, 72 h |
| Crustacea | EC50 | Daphnia | > 400 mg/l, 48 h |
| Fish | LC50 | Fish | > 100 - < 180 mg/l, 96 h |
| Dimethyl ether (CAS 115-10-6) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Daphnia | 4.4 mg/l |
| Fish | LC50 | Fish | 4.1 mg/l |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics | | | |
| *Acute* | | | |
| Other | LC50 | Pseudokirchnerella subcapitata | > 1000 mg/l, 72 h |
| **Aquatic** | | | |
| *Acute* | | | |
| Fish | LC50 | Oncorhynchus mykiss | > 1000 mg/l |
| n-butyl acetate (CAS 123-86-4) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Algae | EC50 | Algae | 675 mg/l, 72 h |
| Crustacea | EC50 | Daphnia | 73 mg/l, 24 h |
| Fish | LC50 | Fish | 62 mg/l, 96 h |

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol/water (log Kow)**

| | |
|---|---|
| acetone; propan-2-one; propanone | -0.24 |
| butan-1-ol; n-butanol | 0.88 |
| Dimethyl ether | 0.1 |
| n-butyl acetate | 1.78 |

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**12.6. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.
GWP: 1

**Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended**

Dimethyl ether (CAS 115-10-6) 1

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**EU waste code** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Disposal methods/information** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Special precautions** Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

**ADR**

| | |
|---|---|
| **14.1. UN number** | UN1950 |
| **14.2. UN proper shipping name** | AEROSOLS, flammable |
| **14.3. Transport hazard class(es)** | |
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | 2.1 |
| **Hazard No. (ADR)** | Not assigned. |
| **Tunnel restriction code** | D |
| **ADR/RID - Classification code:** | 5F |
| **14.4. Packing group** | Not assigned. |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**RID**

| | |
|---|---|
| **14.1. UN number** | UN1950 |
| **14.2. UN proper shipping name** | AEROSOLS, flammable |
| **14.3. Transport hazard class(es)** | |
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | 2.1 |
| **14.4. Packing group** | Not assigned. |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**ADN**

| | |
|---|---|
| **14.1. UN number** | UN1950 |
| **14.2. UN proper shipping name** | AEROSOLS, flammable |
| **14.3. Transport hazard class(es)** | |
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **Label(s)** | 2.1 |
| **14.4. Packing group** | Not assigned. |
| **14.5. Environmental hazards** | No. |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**IATA**

| | |
|---|---|
| **14.1. UN number** | UN1950 |
| **14.2. UN proper shipping name** | Aerosols, flammable |
| **14.3. Transport hazard class(es)** | |
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **14.4. Packing group** | Not assigned. |
| **14.5. Environmental hazards** | No. |
| **ERG Code** | 10L |
| **14.6. Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **Other information** | |
| **Passenger and cargo aircraft** | Allowed with restrictions. |
| **Cargo aircraft only** | Allowed with restrictions. |

**IMDG**

| | |
|---|---|
| **14.1. UN number** | UN1950 |
| **14.2. UN proper shipping name** | Aerosols, flammable |
| **14.3. Transport hazard class(es)** | |
| **Class** | 2.1 |
| **Subsidiary risk** | - |
| **14.4. Packing group** | Not assigned. |

**14.5. Environmental hazards**

**Marine pollutant** No.

**EmS** F-D, S-U

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**ADN; ADR; IATA; IMDG; RID**


## SECTION 15: Regulatory information

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

**Retained direct EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

acetone; propan-2-one; propanone (CAS 67-64-1)
xylene (CAS 1330-20-7)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

acetone; propan-2-one; propanone (CAS 67-64-1)
butan-1-ol; n-butanol (CAS 71-36-3)
Dimethyl ether (CAS 115-10-6)
xylene (CAS 1330-20-7)

**Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)
acetone; propan-2-one; propanone (CAS 67-64-1)
butan-1-ol; n-butanol (CAS 71-36-3)
Dimethyl ether (CAS 115-10-6)
n-butyl acetate (CAS 123-86-4)
xylene (CAS 1330-20-7)

**Other regulations**

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain. This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**List of abbreviations**

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.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
CAS: Chemical Abstract Service.
Ceiling: Short Term Exposure Limit Ceiling value.
CEN: European Committee for Standardization.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
GWP: Global Warming Potential.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
VOC: Volatile organic compounds.
vPvB: Very persistent and very bioaccumulative.
STEL: Short-term Exposure Limit.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements, which are not written out in full under sections 2 to 15**

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

**Revision information** None.

**Training information** Follow training instructions when handling this material.

**Disclaimer**

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