# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 and The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720

**Issuing Date** 12-Dec-2022 **Revision Date** 12-Jun-2023 **Revision Number** 1.01

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

### 1.1. Product identifier

**Product Name** Methanol

**EC No (EU Index No)** 200-659-6

**CAS No** 67-56-1

**Synonyms** Methyl alcohol, wood alcohol, methyl hydroxide

**Pure substance/mixture** Substance

**Molecular weight** 32.04

**Other information** Chemical Family - Alcohols

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

**Recommended use** Industrial use, Professional use, Consumer use:

Solvent
Fuels
Raw material
Cleaning agent
Laboratory reagent
Use in oil and gas field drilling and production operations
Water treatment chemicals, wastewater
Consumer use of cleaning agents and de-icers

**Uses advised against** None known

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

**Supplier**
Methanex Europe SA/NV
Waterloo Office Park - Building C
Drève Richelle 161 - C
B-1410 Waterloo
Belgium
Phone: +(320) 2 352 06 70
Methanex (UK) Limited
2 New Bailey, 6 Stanley Street
Salford, Greater Manchester
United Kingdom, M3 5GS

**For further information, please contact**
**E-mail address** ukreach@methanex.com

### 1.4. Emergency telephone number

**Emergency telephone** Carechem 24 International: +44 (0) 1235 239 670 (24h/7d)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| | |
|---|---|
| **Flammable liquids** | Category 2 - (H225) |
| **Acute toxicity - Oral** | Category 3 - (H301) |
| **Acute toxicity - Dermal** | Category 3 - (H311) |
| **Acute toxicity - Inhalation (Vapours)** | Category 3 - (H331) |
| **Specific target organ toxicity — single exposure** | Category 1 |

### 2.2. Label elements

Contains Methanol

**Signal word**
Danger

**Hazard statements**
H301 - Toxic if swallowed.
H311 - Toxic in contact with skin.
H331 - Toxic if inhaled.
H370 - Causes damage to organs.
H225 - Highly flammable liquid and vapour.

**Precautionary statements**
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Additional information**
This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

### 2.3. Other hazards

Risk of blindness after swallowing the product. Harmful to aquatic life.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name | Weight-% | EC No (EU Index No) | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended) | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|
| Methanol<br>67-56-1 | 100 | 200-659-6 | - | Flam. Liq. 2 (H225)<br>Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>STOT SE 1 (H370) | STOT SE 1 :: C>=10%<br>STOT SE 2 :: 3%<=C<10% | - | - |

**Full text of H- and EUH-phrases: see section 16**

**Additional information**
This substance does not meet the PBT/vPvB criteria.

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required. If breathing is irregular or stopped, administer artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention.

**Skin contact** Remove/Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapour or mist.

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

**Symptoms** Exposure may cause nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure

may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms. May cause blindness.

**Effects of Exposure** No information available.

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

**Note to doctors** The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested; therefore, there is a need for rapid treatment of any ingestion exposure. Call a Poison Center. Antidote: Fomepizole enhances elimination of metabolic formic acid. Antidote should be administered by qualified medical personnel.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**Suitable Extinguishing Media** Use water spray to cool fire-exposed containers. Water will not cool methanol below its flash point. Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Dry sand.

**Unsuitable extinguishing media** Do not use straight streams. Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** Mixtures >20% methanol with water: flammable. Highly flammable liquid and vapour. Vapours are heavier than air and may spread along floors. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Methanol: Burns with invisible flame. Flame may not be visible in daylight.

**Hazardous combustion products** Toxic gases or vapours, Carbon monoxide, Carbon dioxide (CO2), Formaldehyde.

**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** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not breathe vapour or mist.

**Other information** Ventilate the area. 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** Avoid release to the environment. Dispose of contents/containers in accordance with local regulations. Biodegradable at low concentrations. Soluble in water. When released, this product is expected to evaporate. Contact authorities in the event of pollution of soil and aquatic environment or discharge into drains. Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dyke far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Small spill: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use non-sparking tools. Collect spillage. Place in appropriate chemical waste container. Clean contaminated surface thoroughly. Large spill: Dyke far ahead of spill; use dry sand to contain the flow of material. Use clean non-sparking tools to collect absorbed material.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** Safe handling: see Section 7. Personal protection equipment (PPE): see Section 8. Disposal: see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Do not enter confined area unless adequately ventilated. Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash it before reuse. Do not breathe vapour or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapour or mist.

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

**Storage Conditions** Keep unauthorised personnel away. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local

regulations. Keep out of the reach of children. Store locked up.

### 7.3. Specific end use(s)

**Specific use(s)** Manufacture of substance. Formulation & (re)packing of substances and mixtures Distribution of formulations. Use as an intermediate. Use as a Process chemical Distribution of substance. Use as a Fuel (use in industrial settings). Use in Cleaning Agents (use in industrial settings). Use as laboratory reagent/agent (use in industrial settings). Use as wastewater treatment chemical (use in industrial settings). Use in Oilfield drilling and production operations (use in industrial settings). Use as a Fuel (use in professional settings). Use in Cleaning Agents (use in professional settings). Use as laboratory reagent/agent (use in professional settings). Use in Cleaning Agents Use in De-icing and Anti-icing agents (consumer use) (spray products). Use in Cleaning Agents Use in De-icing and Anti-icing agents (consumer use) (liquid products). Use as Fuel additive (consumer use) (outdoor use).

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | United Kingdom |
|---|---|
| Methanol<br>67-56-1 | TWA: 200 ppm<br>TWA: 266 mg/m$^3$<br>STEL: 250 ppm<br>STEL: 333 mg/m$^3$<br>Sk* |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| Methanol<br>67-56-1 | | 20 mg/kg bw/day [4] [6]<br>20 mg/kg bw/day [4] [7] | 130 mg/m$^3$ [4] [6]<br>130 mg/m$^3$ [4] [7]<br>130 mg/m$^3$ [5] [6]<br>130 mg/m$^3$ [5] [7] |

**[4]** Systemic health effects.
**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| Methanol<br>67-56-1 | 4 mg/kg bw/day [4] [6]<br>4 mg/kg bw/day [4] [7] | 4 mg/kg bw/day [4] [6]<br>4 mg/kg bw/day [4] [7] | 26 mg/m$^3$ [4] [6]<br>26 mg/m$^3$ [4] [7]<br>26 mg/m$^3$ [5] [6]<br>26 mg/m$^3$ [5] [7] |

**[4]** Systemic health effects.

**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|---|---|---|---|---|
| Methanol 67-56-1 | 20.8 mg/L | 1540 mg/L | 2.08 mg/L | | |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| Methanol 67-56-1 | 77 mg/kg sediment dw | 7.7 mg/kg sediment dw | 100 mg/L | 100 mg/kg soil dw | |

**8.2. Exposure controls**

**Engineering controls** Provide local exhaust ventilation. Handle product only in closed system or provide appropriate exhaust ventilation. All equipment used when handling the product must be grounded.

**Personal protective equipment**

**Eye/face protection** Tight sealing safety goggles. Eye protection must conform to standard EN 166.

**Hand protection** Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Respiratory protection** Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator

**General advice** PPE assigned in accordance with Council Directive 89/656/EEC of 30 November 1989, as amended, concerning the minimum safety and health requirements for the use by workers of personal protective equipment at the workplace.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapour or mist.

**Environmental exposure controls** Avoid release to the environment. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | clear liquid |
| **Physical state** | Liquid |
| **Colour** | Clear |
| **Odour** | Alcohol |
| **Odour threshold** | 4.2 - 5960 ppm |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | -97.8 °C | No data available |
| **Initial boiling point and boiling range** | 64.7 °C | No data available |
| **Flammability** | | No data available |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | 36.5% | No data available |
| **Lower flammability or explosive limits** | 5.5% | No data available |
| **Flash point** | 11 °C | No data available |
| **Autoignition temperature** | 464 °C | No data available |
| **Decomposition temperature** | | No data available |
| **pH** | | No data available |
| **pH (as aqueous solution)** | | No data available |
| **Kinematic viscosity** | | No data available |
| **Dynamic viscosity** | 0.8 cP | @ 20 °C |
| **Water solubility** | Miscible in water | No data available |
| **Solubility(ies)** | | No data available |
| **Partition coefficient** | -0.77 | log Pow |
| **Vapour pressure** | 12.8 kPa | @ 20 °C |
| **Relative density** | 0.791 - 0.793 | @20°C |
| **Bulk density** | | No data available |
| **Liquid Density** | | No data available |
| **Relative vapour density** | 1.1 | @ 20 °C (air = 1) |
| **Particle characteristics** | | |
| **Particle Size** | | No data available |
| **Particle Size Distribution** | | No data available |

| | |
|---|---|
| **Explosive properties** | Vapours may form explosive mixtures with air. |
| **Oxidising properties** | No information available. |

### 9.2. Other information

| | |
|---|---|
| **Molecular weight** | 32.04 |
| **VOC content** | 100% |
| **VOC** | No information available |
| **Evaporation rate** | 4.1 Butyl acetate = 1 |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Containers may rupture or explode if exposed to heat.

### 10.2. Chemical stability

**Stability** Stable under normal conditions. May form flammable/explosive vapour-air mixture. Hygroscopic.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

**Conditions to avoid** Containers may rupture or explode if exposed to heat. Excessive heat. Heat, flames and sparks.

**10.5. Incompatible materials**

**Incompatible materials** Lead, Aluminium, Zinc, Oxidising agent, Strong acids, Strong bases, Polyethylene, Polyvinyl chloride (PVC), Nitriles.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Carbon monoxide, Carbon dioxide (CO2), Formaldehyde.

## SECTION 11: Toxicological information

**11.1. Toxicological information**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Toxic by inhalation.

**Eye contact** May cause irritation.

**Skin contact** Toxic in contact with skin.

**Ingestion** Toxic if swallowed. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED.

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

**Symptoms** Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms. May cause blindness.

**Acute toxicity** .

**Numerical measures of toxicity**

Acute Toxicity Estimate (ATE) values provided as a reflection of the hazard classification.

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** 100 mg/kg

**ATEmix (dermal)** 300 mg/kg

**ATEmix (inhalation-vapour)** 3 mg/l

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Methanol | = 6200 mg/kg ( Rat ) | = 15840 mg/kg ( Rabbit ) | = 22500 ppm ( Rat ) 8 h<br>= 64000 ppm ( Rat ) 4 h |

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

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

**Serious eye damage/eye irritation** May cause mild to moderate irritation.

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

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

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

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

**STOT - single exposure**

H370 - Causes damage to the following organs: Central nervous system, optic nerve.

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

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Avoid release to the environment. Harmful to aquatic life.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Methanol | - | LC50: =28200mg/L (96h, Pimephales promelas)<br>LC50: >100mg/L (96h, Pimephales promelas)<br>LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss)<br>LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss)<br>LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus) | - | - |

### 12.2. Persistence and degradability

**Persistence and degradability** Readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulation** Not expected to bioaccumulate.

**Bioconcentration factor (BCF)** <10

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Methanol | -0.77 |

### 12.4. Mobility in soil

**Mobility in soil** Adsorbs on soil.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|---|---|
| Methanol | The substance is not PBT / vPvB. |

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Recover or recycle if possible. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

## SECTION 14: Transport information

**IMDG**

**14.1 UN number or ID number** UN1230
**14.2 UN proper shipping name** METHANOL
**14.3 Transport hazard class(es)** 3
**Subsidiary hazard class** 6.1
**14.4 Packing group** II
**Description** UN1230, METHANOL, 3 (6.1), II, (11°C C.C.)
**14.5 Environmental hazards** Not applicable
**14.6 Special Precautions for Users**
**Special Provisions** 279
**EmS-No.** F-E, S-D
**14.7 Maritime transport in bulk according to IMO instruments** No information available

**RID**

**14.1 UN number** UN1230
**14.2 UN proper shipping name** METHANOL
**14.3 Transport hazard class(es)** 3
**Subsidiary hazard class** 6.1
**14.4 Packing group** II
**Description** UN1230, METHANOL, 3 (6.1), II
**14.5 Environmental hazards** Not applicable
**14.6 Special Precautions for Users**
**Special Provisions** None
**Classification code** FT1

**ADR**
**14.1 UN number or ID number** UN1230
**14.2 UN proper shipping name** METHANOL
**14.3 Transport hazard class(es)** 3
**Subsidiary hazard class** 6.1
**14.4 Packing group** II
**Description** UN1230, METHANOL, 3 (6.1), II
**14.5 Environmental hazards** Not applicable
**14.6 Special Precautions for Users**
**Special Provisions** 279
**Classification code** FT1
**Tunnel restriction code** (D/E)

**IATA**
**14.1 UN number or ID number** UN1230
**14.2 UN proper shipping name** Methanol
**14.3 Transport hazard class(es)** 3
**Subsidiary hazard class** 6.1
**14.4 Packing group** II
**Description** UN1230, Methanol, 3 (6.1), II
**14.5 Environmental hazards** Not applicable
**14.6 Special Precautions for Users**
**Special Provisions** A113
**ERG Code** 3L
**Note:** None

## SECTION 15: Regulatory information

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

**National regulations**

**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**

**Take note of Directive 94/33/EC on the protection of young people at work**

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

**Authorisations and/or restrictions on use:**
This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|---|---|---|
| Methanol - 67-56-1 | Use restricted. See item 69. | - |

**Persistent Organic Pollutants**
Not applicable

**Export Notification requirements**
Not applicable

**Dangerous substance category per COMAH Regulations 2015 (as amended)**
H2 - ACUTE TOXIC
H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

**Named dangerous substances per COMAH Regulations 2015 (as amended)**

| Chemical name | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|---|---|---|
| Methanol - 67-56-1 | 500 | 5000 |

**The Ozone-Depleting Substances Regulations 2015**
Not applicable

**The Biocidal Products Regulations 2001 (as amended)**
Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**
Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**
Not applicable

**International Inventories**

| | |
|---|---|
| **TSCA** | Listed |
| **DSL/NDSL** | Listed. |
| **EINECS/ELINCS** | Listed. |
| **ENCS** | Listed. |
| **IECSC** | Listed. |
| **KECL** | Listed. |
| **PICCS** | Listed. |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AIIC** - Australian Inventory of Industrial Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** A Chemical Safety Assessment has been carried out for this substance. Date of most recent Chemical Safety Report: 27/04/2021.

## 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**
H225 - Highly flammable liquid and vapour
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs

**Legend**
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| + | Sensitisers | SCBA | Self-contained breathing apparatus |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**This material safety data sheet complies with the requirements of UK REACH**

**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**

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**End of Safety Data Sheet**