

KOCH METHANOL, LLC

Version #: 01

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of the substance Methanol
Identification number 603-001-00-X (Index number)
Registration number 01-2119433307-44-XXXX
Synonyms None.
Product code KMe_CH3OH_EU_IE

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

Identified uses Industrial feedstock.
Uses advised against Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Company name Koch Methanol, LLC
P.O. Box 2219, Wichita, KS 67201-2219
316-828-7672
kochmsds@kochind.com

Emergency For Chemical Emergency
Call CHEMTREC Day or Night
1.800.424.9300
Mexico - 1.800.681.9531
Outside USA/Canada
1.703.527.3887
(collect calls accepted)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The substance 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**

Flammable liquids Category 2 H225 - Highly flammable liquid and vapour.

Health hazards

Acute toxicity, oral Category 3 H301 - Toxic if swallowed.
Acute toxicity, dermal Category 3 H311 - Toxic in contact with skin.
Acute toxicity, inhalation Category 3 H331 - Toxic if inhaled.
Specific target organ toxicity - single exposure Category 1 (central nervous system, optic nerve) H370 - Causes damage to organs (central nervous system, optic nerve).

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

Contains: Methanol

Hazard pictograms

Signal word Danger

Hazard statements

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 (central nervous system, optic nerve). |

Precautionary statements

Prevention

| | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe mist/vapours. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Response

| | |
|-------------|--|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTRE/doctor. |
| P370 + P378 | In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder to extinguish. |

Storage

| | |
|-------------|--|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
|-------------|--|

Disposal

Not assigned.

Supplemental information on the label

None.

2.3. Other hazards

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. The substance is not included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties. The substance is not considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion.

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|------|----------------------|------------------------|--------------|-------|
| Methanol | > 99 | 67-56-1 200-659-6 | 01-2119433307-44-XXXX | 603-001-00-X | # |
| Classification: Flam. Liq. 2;H225, Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Acute Tox. 3;H331;(ATE: 3 mg/l), STOT SE 1;H370 | | | | | |

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).

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all H-statements is displayed in section 16.

This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier.

SECTION 4: First aid measures

General information

Take off immediately all contaminated clothing. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center or doctor/physician.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

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. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Prolonged and repeated exposure to high vapour concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol. Direct contact with eyes may cause temporary irritation.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire. Water may be ineffective.

5.2. Special hazards arising from the substance or mixture

Combustion products may include: carbon oxides, formaldehyde. Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting procedures

Use water spray to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid inhalation of vapours and spray mists. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

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

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.

Do not breathe mist/vapours. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- H2 ACUTE TOXIC (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)

- H3 STOT SPECIFIC TARGET ORGAN TOXICITY (Lower-tier requirements = 50 tonnes;

Upper-tier requirements = 200 tonnes)

- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tonnes; Upper-tier requirements = 200 tonnes)

ANNEX 1, PART 2 Named dangerous substances

- 22. Methanol [67-56-1] (Lower-tier requirements = 500 tonnes; Upper-tier requirements = 5 000 tonnes)

7.3. Specific end use(s)

Industrial feedstock. Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

| Material | Type | Value |
|------------------------|------|-----------|
| Methanol (CAS 67-56-1) | TWA | 260 mg/m3 |
| | | 200 ppm |

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

| Material | Type | Value |
|------------------------|------|-----------|
| Methanol (CAS 67-56-1) | TWA | 260 mg/m3 |
| | | 200 ppm |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General population

| Product | Value | Assessment factor | Notes |
|--|----------------|-------------------|-------|
| Methanol - Koch Methanol LLC - KMe_CH3OH_EU_IE (CAS 67-56-1) | | | |
| Long-term, Local, Inhalation | 26 mg/m3 | 5 | |
| Long-term, Systemic, Dermal | 4 mg/kg bw/day | 5 | |
| Long-term, Systemic, Inhalation | 26 mg/m3 | 5 | |
| Long-term, Systemic, Oral | 4 mg/kg bw/day | 5 | |
| Short-term, Local, Inhalation | 26 mg/m3 | 5 | |
| Short-term, Systemic, Dermal | 4 mg/kg bw/day | 5 | |
| Short-term, Systemic, Inhalation | 26 mg/m3 | 5 | |
| Short-term, Systemic, Oral | 4 mg/kg bw/day | 5 | |

Workers

| Product | Value | Assessment factor | Notes |
|--|-----------------|-------------------|-------|
| Methanol - Koch Methanol LLC - KMe_CH3OH_EU_IE (CAS 67-56-1) | | | |
| Long-term, Local, Inhalation | 130 mg/m3 | | |
| Long-term, Systemic, Dermal | 20 mg/kg bw/day | | |
| Long-term, Systemic, Inhalation | 130 mg/m3 | | |
| Short-term, Local, Inhalation | 130 mg/m3 | | |

| | |
|----------------------------------|-----------------------|
| Short-term, Systemic, Dermal | 20 mg/kg bw/day |
| Short-term, Systemic, Inhalation | 130 mg/m ³ |

Predicted no effect concentrations (PNECs)

| Product | Value | Assessment factor | Notes |
|--|-----------|-------------------|-------|
| Methanol - Koch Methanol LLC - KMe_CH3OH_EU_IE (CAS 67-56-1) | | | |
| Freshwater | 20.8 mg/l | 10 | |
| Marine water | 2.08 mg/l | 100 | |
| Sediment (freshwater) | 77 mg/kg | | |
| Sediment (marine water) | 7.7 mg/kg | | |
| Soil | 100 mg/kg | 10 | |
| STP | 100 mg/l | 10 | |

Exposure guidelines

Ireland Exposure Limit Values: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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 and safety shower.

Individual protection measures, such as personal protective equipment

General information

Wear chemical protective equipment that is specifically recommended by the manufacturer. 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). Wear one or more of the following depending on hazard of task: chemical splash goggles, safety glasses, face shield. Eye protection should meet standard EN 166.

Skin protection

- Hand protection

Wear suitable gloves tested to EN 374.
Recommended use: Glove material: Butyl rubber. Use gloves with breakthrough time of >480 minutes. Minimum glove thickness 0.7 mm.

- Other

Wear appropriate chemical resistant clothing. The following protective clothing is recommended: apron, disposable coveralls.

Respiratory protection

Appropriate respirator selection should be made by a qualified professional. Chemical respirator with organic vapour cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

When using do not smoke. Keep away from food and drink. 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

| | |
|--|-------------------------------------|
| Physical state | Liquid. |
| Form | Liquid. |
| Colour | Colourless. |
| Odour | Characteristic odour. Pungent. |
| Odour threshold | 2000 ppm |
| Melting point/freezing point | -97.8 °C (-144.04 °F) estimated |
| Boiling point or initial boiling point and boiling range | 64.7 °C (148.46 °F) at 760 mmHg |
| Flammability | Highly flammable liquid and vapour. |
| Upper/lower flammability or explosive limits | |
| Explosive limit - lower (%) | 5.5 % v/v |
| Explosive limit - upper (%) | 36 % v/v |
| Flash point | 9.7 °C (49.46 °F) Closed cup |
| Auto-ignition temperature | 455 °C (851 °F) |

| | |
|----------------------------------|--|
| Decomposition temperature | Not determined. |
| pH | Property has not been measured. |
| Kinematic viscosity | 0.6877 mm ² /s estimated Not determined. |

Solubility

| | |
|--|----------------------------------|
| Solubility (water) | Miscible. |
| Partition coefficient (n-octanol/water) (log value) | -0.77 estimated. (20 °C (68 °F)) |
| Vapour pressure | Not determined. |

Density and/or relative density

| | |
|-------------------------|----------------------------------|
| Density | > 0.79 - < 0.8 g/cm ³ |
| Relative density | > 0.79 - < 0.8 (20 °C (68 °F)) |

Vapour density 1.1 (air=1.0)

Particle characteristics Not applicable, material is a liquid.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

| | |
|--------------------------------------|-----------------------------------|
| Dynamic viscosity | 0.54 - 0.59 mPa.s (25 °C (77 °F)) |
| Heat of combustion (NFPA 30B) | 19 kJ/g |
| Molecular formula | CH ₃ OH |
| Molecular weight | 32.04 g/mol |
| Surface tension | 22.61 mN/m (20 °C (68 °F)) |

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 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| 10.5. Incompatible materials | Strong acids. Strong bases. Strong oxidising agents. Metals. Hydrogen peroxide (H ₂ O ₂). |
| 10.6. Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11: Toxicological information

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

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | Toxic if inhaled. May cause damage to organs by inhalation. |
| Skin contact | Toxic in contact with skin. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Toxic if swallowed. |

Symptoms Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioural changes. Decrease in motor functions.

Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

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

| | |
|--|---|
| Acute toxicity | Toxic by inhalation, in contact with skin and if swallowed. |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| 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. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| Specific target organ toxicity - single exposure | Causes damage to organs (central nervous system, optic nerve). |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Mixture versus substance information | No information available. |

11.2. Information on other hazards

| | |
|--|--|
| Endocrine disrupting properties | This substance does not have endocrine disrupting properties with respect to human health, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605. |
| Other information | May be harmful if absorbed through skin. |

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. |
| 12.2. Persistence and degradability | The product is readily biodegradable. |
| 12.3. Bioaccumulative potential | Not expected to bioaccumulate on the basis of the low octanol-water partition coefficient. |
| Partition coefficient n-octanol/water (log K_{ow}) | -0.77 |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | The product is completely soluble in water. Expected to be mobile in soil. |
| 12.5. Results of PBT and vPvB assessment | This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII. |
| 12.6. Endocrine disrupting properties | This substance does not have endocrine disrupting properties with respect to the environment, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605. |
| 12.7. Other adverse effects | The product is a volatile organic compound which has a photochemical ozone creation potential. |

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. |
| 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. |
| EU waste code | 07 01 04* |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 | UN1230 |
| 14.2. UN proper shipping name | METHANOL |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | 6.1 |
| Label(s) | 3 |
| | +6.1 |
| Hazard No. (ADR) | 336 |
| Tunnel restriction code | D/E |
| 14.4. Packing group | II |
| 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 | UN1230 |
| 14.2. UN proper shipping name | METHANOL |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | 6.1 |
| Label(s) | 3+6.1 |
| 14.4. Packing group | II |
| 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 | UN1230 |
| 14.2. UN proper shipping name | METHANOL |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | 6.1 |
| Label(s) | 3+6.1 |
| 14.4. Packing group | II |
| 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 | UN1230 |
| 14.2. UN proper shipping name | Methanol |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | 6.1 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | No |
| ERG Code | 3L |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

IMDG

| | |
|---|--|
| 14.1. UN number | UN1230 |
| 14.2. UN proper shipping name | METHANOL |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | 6.1 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | |
| Marine pollutant | No |
| EmS | F-E, S-D |
| 14.6. Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| 14.7. Maritime transport in bulk according to IMO instruments | This product is a liquid and when transported in bulk is covered under MARPOL 73/78 Annex II. This product is listed in the IBC Code. Product name: Methyl alcohol Ship type: 3 Pollution category: Y The product hazard category is: S/P |

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****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
Not listed.

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
- Conditions of restriction given for the associated entry number should be considered
Methanol (CAS 67-56-1) 69

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.
Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended
Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended
Not listed.

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

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- H2 ACUTE TOXIC
- H3 STOT SPECIFIC TARGET ORGAN TOXICITY
- P5a, b or c FLAMMABLE LIQUIDS

ANNEX 1, PART 2 Named dangerous substances
- 22. Methanol [67-56-1]

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment 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: Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

STEL: Short term exposure limit.

vPvB: Very persistent and very bioaccumulative.

CAS: Chemical Abstract Service.

ECHA: European Chemical Agency.

IARC: International Agency for Research on Cancer.

IMDG: International Maritime Dangerous Goods.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
TWA: Time Weighted Average.

References

ECHA registered substances database
IARC Monographs. Overall Evaluation of Carcinogenicity

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

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.

Training information

Follow training instructions when handling this material.

Disclaimer

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