

SAFETY DATA SHEET

KEMAUS

METHANOL AR

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation:

Catalogue no. : KA318

Product name : Methanol AR

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia

Tel no. (61) 2 98998169

Fax no. (61) 2 98997976

1.4 Emergency telephone:

(61) 2 98998169 (9:00am - 5:00 pm) [Office hours]

2. Identification of dangers

2.1 Classification of the substance.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity, oral, Category 4: Toxic if swallowed.

Acute Toxicity, dermal, Category 4: Toxic in contact with skin.

Acute Toxicity, inhalation, Category 4: Toxic if inhaled.

Flammable liquids, Category 2: Highly flammable liquid and vapour.

Specific target organ toxicity, eyes, Single exposure, Category 1: Causes damage to organs (Eyes).

2.2 Label elements.

Hazard pictograms



Signal words : Danger.

Hazard statements (H) :

H225 : Highly flammable liquid and vapour.

H301 + H311 + H331 : Toxic if swallowed, in contact with skin or if inhaled.

H370 : Causes damage to organs (Eyes).

Precautionary statements (P) :

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P240 : Ground/bond container and receiving equipment.

P280 : Wear protective gloves/protective clothing.

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P310 : IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards.

None known.

3. Composition/information on ingredients

3.1 Substance / Preparation.

Methanol

Formular: CH₃OH

CAS No : 67-56-1

Molecular weight : 32.04

Contains no other components or impurities which will influence the classification of the product.

3.2 Mixture.

Not applicable.

4. First-aid measures

4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air. If breathing is irregular or stops, perform artificial respiration. Seek medical assistance.

- Skin contact: Remove contaminated clothing. Wash skin with water and soap or a suitable skin cleaner.
Seek medical assistance.
- Eyes: Wash with plenty of water, keeping eyelids open and seek medical assistance.
- Ingestion: Rinse mouth. Never induce vomiting. Do not attempt to neutralise. Seek immediate medical attention
- 4.2 Most important symptoms and effects, both acute and delayed.
Toxic Product, contact with eyes or skin can cause drying-out effect resulting in rough, chapped skin, irritation and redness. Inhaling or ingestion may results drowsiness, dizziness, narcosis, agitation, spasms, inebriation, nausea, vomiting, Headache, blindness, Impairment of vision, Coma.
- 4.3 Indication of any immediate medical attention and special treatment needed.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Seek immediate medical advice.
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5. Fire-fighting measures

- 5.1 Suitable extinguishing media.
Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 5.2 Special hazards arising from the substance.
Special risks: Under fire conditions, hazardous fumes will be present. Exposure to combustion or decomposition products can be harmful to your health.
- 5.3 Advice for firefighters.
Do not enter fire area without proper protective equipment, including respiratory protection.
Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.
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6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures.
For exposure control and individual protection measures, see section 8.
- 6.2 Environmental precautions.
Product dangerous for the environment, do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods and material for containment and cleaning up.
The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials.
- 6.4 Reference to other sections.
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.
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7. Handling and storage

- 7.1 Precautions for safe handling.
Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Keep the product in containers made of a material identical to the original.
- 7.2 Conditions for safe storage, including any incompatibilities.
Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Prevent the entry of non-authorised persons.
- 7.3 Specific end use(s).
None.
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8. Exposure controls/personal protection

- 8.1 Control parameters.
The product contain substances with Professional Exposure Environmental Limit Values.
Methyl Alcohol : STEL : 328mg/m³, (250 ppm)
TWA : 262mg/m³, (200 ppm)
A time weighted average (TWA) has been established for Methyl alcohol [Methanol] (Safe Work Australia) of 262 mg/m³, (200 ppm). The corresponding STEL level is 328 mg/m³, (250 ppm). The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Note: Absorption through the skin may be a significant source of exposure.
The product does NOT contain substances with Biological Limit Values.
- 8.2 Exposure controls.
Personal protection : Avoid all unnecessary exposure.
Respiratory protection : Wear approved mask.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Hygiene measures : Remove contaminated clothing. Wash hands before breaks and when the job is done.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

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| Appearance: | Liquid. |
| Colour: | Clear Colorless. |
| Odour: | Characteristic. |
| Odour threshold: | No data available. |
| pH value: | No data available. |
| Melting Point: | -98 °C |
| Boiling Point: | 64.5 °C |
| Flash point: | 9.7 °C |
| Flammability (solid, gas) : | No data available. |
| Evaporation rate : | No data available. |
| Vapour pressure: | 96.5 (20 °C) |
| Vapour density : | No data available. |
| Lower Explosive Limit: | 5.5 % (V) |
| Upper Explosive Limit: | 44 % (V) |
| Solubility: | No data available. |
| Density: | No data available. |
| Relative density | 0.792 g/cm ³ |
| Partition coefficient (n-octanol/water): | -0.77 (log Pow) |
| Viscosity: | No data available. |
| Auto-ignition temperature: | No data available. |
| Decomposition temperature: | No data available. |
| Explosive properties: | No data available. |
| Oxidizing properties: | No data available. |

9.2 Other information.

None.

10. Stability and reactivity

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Can react with Oxidizing agents, Acid anhydrides, Reducing agents, acids, and Alkali metals.

10.4 Conditions to avoid.

Avoid contact with incompatible materials and strong heating.

10.5 Incompatible materials.

Keep away from flammable materials, magnesium and zinc alloys.

10.6 Hazardous decomposition products.

No information available.

11. Toxicological information

11.1 Information on toxicological effects.

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|-------------------------|---|
| Acute toxicity. | LDLO human: 143 mg/kg LC50 rat : 131.3 mg/l ; 4h |
| Inhalation: | Toxic if inhaled. |
| Dermal: | Toxic in contact with skin. |
| Ingestion: | Toxic if swallowed. |
| Corrosion: | Based on available data, the classification criteria are not met. |
| Irritation: | Based on available data, the classification criteria are not met. |
| Sensitization: | Based on available data, the classification criteria are not met. |
| Mutagenicity: | Based on available data, the classification criteria are not met. |
| Carcinogenicity: | Based on available data, the classification criteria are not met. |
| Toxic for reproduction: | Based on available data, the classification criteria are not met. |
| STOT-single exposure: | Causes damage to organs (Eyes). |
| STOT-repeated exposure: | Based on available data, the classification criteria are not met. |
| Aspiration hazard: | Based on available data, the classification criteria are not met. |

12. Ecological information

12.1 Toxicity.

Toxicity to fish.
LC50 *Lepomis macrochirus* : 15400 mg/l ; 96 h
Toxicity to Aquatic invertebrates.
EC50 *Daphnia magna* : > 10000 mg/l ; 48 h
Toxicity to bacteria.
IC50 activated sludge: > 1000 mg/l ; 3 h

12.2 Persistence and Degradability.

Biodegradable.

12.3 Bioaccumulative potential.

Partition coefficient: n-octanol/water log Pow: -0.77

12.4 Mobility in soil .

Not established.

12.5 Results of PBT and vPvB assessment.

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

13. Disposal considerations

13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

14.1 UN number.

UN No: UN1230

14.2 UN proper shipping name.

ADR: UN 1230 METHANOL, 3 (6.1), II, (D/E)
IMDG: UN 1230 Methanol, 3 (6.1), II
ICAO: UN 1230 Methanol, 3 (6.1), II

14.3 Transport hazard class(es).

Class(es): 3 (6.1)

14.4 Packing group.

Packing group: II

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3, 6.1

Hazard number: 36

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-D

Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not transported in bulk.

15. Regulatory information

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

Ensure all national/local regulations are observed.
The product is not affected by REACH Restrictions - Annex XVII
The product is not affected by REACH Authorisation - Annex XIV

15.2 Chemical safety assessment.

Not Scheduled.

16. Other Information

Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50%

IC50: Inhibitory Concentration, 50%

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

LDLO: Lethal dose low.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Sources of key data used.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Review number and date.

v. 1.0

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27-Nov-2017

Further information.

None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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