

## SAFETY DATA SHEET

### 2-METHOXYETHANOL AR

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

1.1 Identification of the substance or preparation:

Catalogue no. : KA737

Product name : 2-Methoxyethanol AR

Synonym: Ethylene glycol monomethyl ether

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

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

Health hazards : Reproductive toxicity - Fertility - Category 1B - Danger (CLP : Repr. 1B) H360

Reproductive toxicity - Unborn Child - Category 1B - Danger (CLP : Repr. 1B) H360

Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312

Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

Physical hazards : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3) H226

Symbol(s) T Toxic

R Phrase(s) R10 : Flammable

R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.

R60 : May impair fertility.

R61 : May cause harm to the unborn child.

S Phrase(s) S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

S53 : Avoid exposure - obtain special instructions before use.

Signal words : Danger

Hazard pictograms



Hazard statements :

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H332 : Harmful if inhaled.

H360D: May damage the unborn child.

H360F : May damage fertility.

Precautionary statements:

General :

P201: Obtain special instructions before use.

Prevention:

P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

Response:

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.

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

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing.

Rinse skin with water/shower.

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

P308+P313: If exposed or concerned : get medical advice.

P363: Wash contaminated clothing before reuse.

P370+P378: In case of fire: Use for extinction.

Storage :

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

P405: Store locked up.

Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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### 3. Composition/information on ingredients

Substance / Preparation: 2-Methoxyethanol  
Formula: C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>  
CAS No : 109-86-4  
EC No : 203-713-7

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### 4. First-aid measures

#### 4.1 Description of first aid measures

Inhaling: Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration. Seek immediate medical assistance.  
Contact with the skin: Wash with plenty of water. Remove contaminated clothing.  
Eyes: Wash with plenty of water, keeping eyelids open. Seek immediate medical assistance.  
Ingestion: Never induce vomiting. Seek immediate medical assistance.

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

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance. Long-term chronic exposure may result in injury to certain organs or tissues.

#### 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. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

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### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable fire-extinguishing means: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

#### 5.2 Special hazards arising from the substance

Special risks: Under fire conditions, hazardous fumes will be present.

#### 5.3 Advice for firefighters.

Do not enter fire area without proper protective equipment, including respiratory protection. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

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### 6. Accidental release measures

6.1 Individual precautions: Do not inhale the fumes. Use personal protective equipment as required. Avoid sources of ignition.

Do not smoke. Avoid contact with the skin, eyes or clothing. Ensure adequate ventilation.

6.2 Environmental precautions: Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning: Collect up with absorbent materials or, if none available, dry sand or earth and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

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### 7. Handling and storage

7.1 Handling: Avoid the formation of electrostatic charges. Ensure good ventilation and renewal of the air in the premises.

Avoid breathing dust, fume, gas, mist, vapours or spray. Avoid contact with the skin, eyes or clothing. Use personal protective equipment as required.

7.2 Storage: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

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### 8. Exposure controls/personal protection

8.1 Technical protective measures: Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control: No data available.

8.3 Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

8.4 Hand protection: Use suitable gloves

8.5 Eye protection: Use suitable goggles.

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### 9. Physical and chemical properties

Appearance: liquid.

Colour: Colourless.

Odour: No data available.

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pH value:	No data available.
Melting Point:	-85 °C
Boiling Point:	125 °C
Flash point:	37 °C
Flammability (solid, gas) :	Flammable liquid and vapour. Flammable.
Evaporation rate :	No data available.
Inflammability (solid, gas):	No data available.
Lower Explosive Limit:	2.5% v/v
Upper Explosive Limit:	20% v/v
Vapour pressure:	No data available.
Vapour density :	No data available.
Solubility:	No data available.
Density:	0.964
Partition coefficient (n-octanol/water):	-0,77 (log Pow)
Auto-ignition temperature:	325 °C
Viscosity :	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

## 10. Stability and reactivity

10.1 Reactivity:	If the storage conditions are satisfied, does not produce dangerous reactions.
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	Flammable liquid and vapour.
10.4 Conditions to avoid:	Direct sunlight. Extremely high or low temperatures. Sparks.
10.5 Incompatible materials:	Explosives materials, Toxic materials, Oxidizing materials.
10.6 Hazardous decomposition products:	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

## 11. Toxicological information

11.1 Acute toxicity:	LD50 oral hmn : 3,380 mg/kg LD50 oral rat : 2,370 mg/kg LD50 skn rbt : 1,280 mg/kg LC50 inh rat : 1500 ppm 7h
11.2 Dangerous effects for health:	
Ingestion:	Harmful if swallowed.
Inhalation:	Harmful if inhaled.
Skin:	Based on available data, the classification criteria are not met.
Eye:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Corrosion:	Based on available data, the classification criteria are not met.
Mutagenicity:	Based on available data, the classification criteria are not met.
Toxic for reproduction:	May damage fertility. May damage the unborn child.
Sensitization:	Based on available data, the classification criteria are not met.

## 12. Ecological information

12.1 Toxicity:	Not established.
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulative potential:	Not established.
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 possible effects on the environment:	Avoid release to the environment.

## 13. Disposal considerations

Disposal considerations:	Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Contaminated containers:	Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

## 14. Transport information

14.1 Overland (ADR):	
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Technical name: ETHYLENE GLYCOL MONOMETHYL ETHER  
UN 1188 Class: 3 Packaging group: III (D/E)  
14.2 By sea (IMDG):  
Technical name: ETHYLENE GLYCOL MONOMETHYL ETHER  
UN 1188 Class: 3 Packaging group: III  
14.3 By air (ICAI-IATA):  
Technical name: ETHYLENE GLYCOL MONOMETHYL ETHER  
UN 1188 Class: 3 Packaging group: III  
Packaging instructions: CAO 366 PAX 355

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#### 15. Regulatory information

5.1 Regulatory Information: Ensure all national/local regulations are observed.  
5.2 Poisons Schedule: Not Scheduled.

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#### 16. Other Information

Abbreviations and acronyms : 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.1.1  
Date published: 7-Nov-2013  
Further information : None.

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

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