



Material Safety Data Sheet

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Issue date: March 2010

Erabond MCA

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Erabond MCA

Synonym: None

Use: Polyurethane adhesive

Era Polymers Pty Ltd
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Australia
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Emergency Advice All Hours:
Technical Manager +61 2 9666 3788

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC CRITERIA

Hazard Category: Toxic (T), Irritant (Xi)

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOOD

RISK PHRASES

R23 Toxic by inhalation.

R40 Possible risk of irreversible effects

R42/43 May cause sensitisation by inhalation and skin contact.

SAFETY PHRASES

S23 Do not breathe gas/fumes/vapour/spray.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of soap and water and contact a doctor.

S28 After contact with skin, wash immediately with plenty of soap and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S38 In case of insufficient ventilation, wear suitable respiratory protection.

S45 In case of accident or if you feel unwell, contact a doctor immediately and show this container or label.

Poison Schedule: S6 [Aust]

This material is a Scheduled **S6** Poison and must be stored, handled and used according to the appropriate regulations.

Warning Statement:

Sensitizer, Toxic.

Harmful by ingestion, inhalation and skin contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
PREPOLYMER MDI	30 to 60%	Mixture
DICYCLOHEXYLMETHANE-4,4'-DIISOCYANATE	1 to 10%	5124-30-1
METHYLENE CHLORIDE [DICHLOROMETHANE]	30 to 60%	75-09-2
FLAME RETARDANT	1 to 10%	Mixture
CATALYST (Below Cut-off)	Less than 1%	6425-39-04

All other ingredients not hazardous according to NOHSC Criteria.

4. FIRST AID MEASURES



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Swallowed:

If swallowed, DO NOT induce vomiting. Seek urgent medical assistance.

Eye:

If material is splashed into eyes, flush with plenty of water for at least 15 minutes, ensuring eyelids are held open. Immediately transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap if available.

Urgently transport to hospital or doctor.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing - DO NOT USE DIRECT MOUTH - TO - MOUTH METHOD if victim ingested or inhaled substance; use alternative respiratory method or proper respiratory device - Administer oxygen if breathing is difficult.

First Aid Facilities:

Eye wash fountain, safety shower and normal washroom facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, foam or water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel. Avoid spreading burning liquid with water used for cooling fire exposed containers when using water spray, boil-over may occur when the product temperature reaches the boiling point of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapours from this product may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from the point of handling.

HAZCHEM CODE: 2X [Aust]

FLAMMABILITY

Material does not burn UNDER NORMAL CONDITIONS. Methylene Chloride mixtures in air can be ignited with high intensity sources of heat.

Fire or heat will produce irritating, toxic and/or corrosive gases.

Runoff may pollute waterways, drains or sewers.

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY ACTION:

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Isolate for 100 m in all directions if tank, rail car or tanker truck is involved in fire.

SPILL OR LEAK PROCEDURE:

Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour; but it may not prevent ignition in closed spaces.

SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. **Place into labelled drum(s) for later disposal.**



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LARGE SPILLS: Notify Emergency Services (Police or Fire Brigade). Tell them location, nature and any information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. Check all fittings, valves, reticulation (piping) and any ancillary equipment for leaks. A supplied air respirator or a Self-Contained Breathing Apparatus (SCBA) for emergencies should be available and checked regularly. For further information please refer to the Engineering Controls of this MSDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

PREPOLYMER MDI

No Exposure details available

DICYCLOHEXYLMETHANE-4,4'-DIISOCYANATE

Isocyanate exposure standard (Worksafe Australia)

[TWA] 0.02 mg/m³

[STEL] 0.07 mg/m³

Notices: Sen

METHYLENE CHLORIDE [DICHLOROMETHANE]

(Worksafe Australia)

[TWA] 50 ppm 174 mg/m³

Carcinogen Category: 3

Notices: Sk

References: Amended

(ACGIH)

[TWA] 50 ppm 174 mg/m³

Carcinogen Category: A3

Notices: Sk

FLAME RETARDANT

No Exposure details available

CATALYST (Below Cut-off)

No Exposure details available

Engineering Controls

Toxic material. Single significant exposure may cause death. Maintain adequate ventilation at all times. Prevent accumulation of gas(es) in hollows or sumps. Eliminate any sources of ignition. DO NOT enter room unless monitored by another person (ie buddy-buddy system). Sampling of the atmosphere if possible should be conducted automatically instead of human operator and any leaks discovered should then be directed digitally to a command centre where the event can be acted upon, with all appropriate procedures being implemented and including any protective equipment as outlined in this MSDS.

Personal Protection Equipment

CLOTHING: PVC, Nitrile, Neoprene, Natural rubber or any other type of apron or splash suit as recommended by the manufacturer.

GLOVES: PVC, Nitrile, Neoprene, Natural rubber or any other type of glove as recommended by the manufacturer.



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EYES: Chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of gases. Select and use respirators in accordance with AS/NZS 1715/1716. When gases exceed the exposure standards then the use of an atmosphere-supplied, positive pressure demand self-contained or airline breathing apparatus supplied air respirator complying with the requirements of AS/NZS 1715 is recommended. Filter capacity and respirator type depends on exposure levels.

If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid
Boiling Point Melting Point:	Not determined
Vapour Pressure:	Not determined
Specific Gravity:	1.2
Flash Point:	Not determined
Flammability Limits:	Not determined
Solubility in Water:	Reacts with water releasing carbon dioxide

Other Properties

Isocyanate content approx 14%

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits acrid smoke and fumes when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Avoid temperatures above 80C.

INCOMPATIBILITIES:

Strong alkalis, acids, nitrates and oxidizing agents and water..

CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS:

Swallowed:

Harmful if swallowed.

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Harmful by skin contact.

Will cause irritation to the skin, with effects including: Redness, itchiness, and possible dermatitis.

Inhaled:



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Toxic if inhaled.

May cause irritation to the nose, throat and respiratory system with effects including: Dizziness, headache and loss of co-ordination.

Chronic:

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated contact with this substance will cause sensitisation by inhalation.

Prolonged or repeated contact with this substance will cause sensitisation by skin contact.

Toxicological Data:

NON-LETHAL IRREVERSIBLE EFFECTS AFTER A SINGLE EXPOSURE

This substance is capable of causing serious irreversible effects after a single exposure and is determined to be a hazardous substance. Such irreversible effects can include central nervous system effects, kidney necrosis, liver lesions, anaemia or paralysis.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Not determined

Mobility:

Not determined

Persistence / Degradability:

Reacts with water to form a urea.

Chemical Fate Information:

This substance may cause long-term adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste by an approved waste agency. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Road Transport

UN Number: 2810

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Dichloromethane)

Dangerous Goods Class: 6.1

Packing Group: III

Label: Toxic (T), Irritant (Xi)

Air Transport

UN Number: 2810

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Dichloromethane)

Dangerous Goods Class: 6.1

Packing Group: III

Label: Toxic (T), Irritant (Xi)

Sea Transport

UN Number: 2810

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Dichloromethane)

Dangerous Goods Class: 6.1

Packing Group: III

Label: Toxic (T), Irritant (Xi)

