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## Material Safety Data Sheet

Issue Date: August 2004

### CATALYST

According to the criteria of WorkSafe Australia, this product is classified hazardous.

### PRODUCT IDENTIFICATION

**PRODUCT NAME:** MONOTHANE CATALYST

<b>UN NO.:</b>	1993	<b>D.G. CLASS:</b>	3
<b>HAZCHEM:</b>	2[S]	<b>PACK. GRP.:</b>	III
<b>POISONS SCHEDULE:</b>	Not scheduled		
<b>MANUF. MANCODE:</b>	URECOAT		
<b>PRODUCT USE:</b>	Product is used as a catalyst to speed Monothane curing.		

### INGREDIENTS

<b>CHEMICAL ENTITY:</b>	<b>CAS No:</b>	<b>PROPORTION:</b>
Methoxy Propyl Acetate	108-65-6	>50%
N, N-Dimethylethanolamine	108-01-0	40-50%

### PHYSICAL DESCRIPTION / PROPERTIES

- APPEARANCE:** Colourless, clear liquid with a characteristic Ammoniacal fishy odour.
- MELTING POINT (°C):** -88
- BOILING POINT (°C):** 146
- VAPOUR PRESSURE (@ 20°C):** 0.49 kPa
- SPECIFIC GRAVITY (Kg/m<sup>3</sup> @ 20°C):** 0.908
- FLASH POINT (°C PMCC):** 50
- FLAMMABILITY LIMITS (%):** 1.2 – 10.6
- REL. VAPOR DENSITY (Air = 1):** 4.6

#### OTHER PROPERTIES:

- Auto ignition Temp. (°C): 354
- Evaporation Rate (relative to n-butyl acetate): 0.33
- Solubility in Water: 200 kg/m<sup>3</sup> @ 20°C.
- Partition Coefficient (Log Pow): 0.43 calculated
- Viscosity: 1.24 cSt @ 20°C

**HEALTH EFFECTS**

<b>Acute – Ingestion</b>	A large dose may have the following effects: Central Nervous System depression, drowsiness, and loss of consciousness. Aspiration during swallowing or vomiting may severely damage the lungs.
<b>Acute – Eye</b>	Liquid may cause conjunctival irritation and possibly lead to irritation.
<b>Acute – Skin</b>	Repeated or prolonged skin contact may lead to irritation.
<b>Acute – Inhalation</b>	Exposure to vapour at concentrations of 100 ppm and above may have the following effects: irritation to nose, throat and respiratory tract.
<b>Chronic</b>	Prolonged or repeated skin contact may lead to defatting and dermatitis.

**FIRST AID**

<b>Ingestion</b>	Wash mouth out with water. DO NOT induce vomiting. Have victim drink 1-2 glasses of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention and/or call poisons information centre, Australia 131126.
<b>Eye</b>	Irrigate with copious quantities of water for at least 10 minutes, ensure eyelids are held open. Seek medical advice if any pain, soreness or redness develops or persists.
<b>Skin</b>	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove contaminated clothing and wash underlying skin. Launder clothing before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.
<b>Inhalation</b>	If affected remove the casualty to fresh air. Remove any contaminated clothing and loosen remaining clothing. Obtain medical attention.
<b>Other Information</b>	Eye wash fountains and safety showers should be easily accessible.

**ADVICE TO DOCTOR**

<b>Advice to Doctor</b>	Treat symptomatically.
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## PRECAUTIONS FOR USE

### Exposure Limits

	<b>mg/m<sup>3</sup> TWA</b>	<b>ppm TWA</b>
Methoxy Propyl Acetate	550	100

**Other Exposure Info.** Can be absorbed through skin. Exposure Standards are the Time Weighted Average (TWA) airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week; where nearly all workers may be exposed day after day, without adverse effect. These Exposure Standards are issued as guidelines and should not be interpreted as a fine line between safe and dangerous conditions. All atmospheric contamination should be kept to as low a level as is practically possible.

**Engineering Controls** Exposure can be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.

## Personal Protection

**Protective Equipment** Avoid eye and skin contact. Avoid inhaling the vapour or mist. Follow normal industrial safety practices. The use of protective clothing and equipment depends on the degree of exposure. The following personal protective equipment should be used:

**Respiratory Protection** Where concentrations in air exceed recommended exposure limits, or work practice or other means of exposure reduction are not adequate, use respirator fitted with filters that conform with AS 1716.

**Eye Protection** Use safety glasses, chemical goggles or face shield as appropriate, refer AS 1337.

**Hand Protection** Use chemical resistant rubber gloves, refer AS 2161.

**Protective Clothing** Use long sleeved chemical resistant overalls, fastened at neck and wrists, refer AS 3765.

**Footwear** Wear chemically impervious safety shoes/boots, refer AS 2210.

**Work/Hygienic Practices** Ensure high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking etc.

## Flammability

<b>Fire Hazards</b>	Flammable Liquid. Avoid heat and sources of ignition. Prevent build-up of flammable vapours.
<b>Other Precautions</b>	MAIN HAZARDS: Irritating to eyes.

## SAFE HANDLING INFORMATION

### Storage and Transport

**Storage Precautions** Store and transport in accordance with AS 1940-1993 and local and state regulations. Store in a cool well ventilated area and away from sources of heat and ignition. Store away from oxidising agents and foodstuffs. Keep containers tightly closed when not in use. Check regularly for leaks. Suitable storage materials are mild steel, polypropylene. Where trace iron contamination or slight discolouration is critical, store in stainless steel, coated mild steel, aluminium and its alloys. Do not store in copper and its alloys, galvanised mild steel. For gaskets and seals use butyl rubber or PTFE. Defined as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**Shipping Name (CSN)** FLAMMBLE LIQUIDS, N.O.S.

**Other Storage Info.** HANDLING: Use in well ventilated area. Avoid inhaling vapour. Avoid contact with eyes and skin and clothing.

## Spills and Disposals

**Spills and Leaks** **SMALL SPILLS:** Extinguish or remove all potential sources of ignition. Increase ventilation. Avoid contact with liquid. Absorb with an inert non-combustible material such as vermiculite or sand. Wear full protective clothing and goggles. Prevent run off into drains or waterways. Collect and place into drums with non-sparking tools for recovery or disposal.

**LARGE SPILLS:** Inform Authorities if a major spillage occurs. Evacuate all non-emergency personnel from area. Keep public away. Warn occupants downwind. Dike area far ahead of liquid and recover. Extinguish all ignition sources. Prevent entry into drainage systems, rivers etc. Collect with absorbent material such as sand, earth or vermiculate. Ensure waste disposal conforms Local, State and Federal regulations.

**Fire/Explosion Hazard**

<b>Fire/Explos. Hazards</b>	Flammable liquid. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion. EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical powder.
<b>Hazardous Reaction</b>	STABILITY: Stable. CONDITIONS TO AVOID: Sparks, heat, sources of ignition. INCOMPATIBILITIES (MATERIALS TO AVOID): Oxidising agents, HAZARDOUS. DECOMPOSITION OR BYPRODUCTS: Oxides of carbon. (CO <sub>2</sub> , CO) HAZARDOUS POLYMERIZATION: Will not occur.
<b>Hazchem Code</b>	3[Y]E

**OTHER INFORMATION****Packaging and Labelling:**

5 Litre drums containing 4.5 kg,  
1 Litre drums containing 0.9 kg.  
Class 3 labels according to Australian Code for Transport of Dangerous Goods and labels to meet the requirements of a Schedule 5 poison.

**Shelf Life**

This product is best if used within 24 months from manufacture (refer to batch number), when stored in unopened containers under normal conditions of temperature and humidity.

**CONTACT POINT**

<b>Contact</b>	Urethane Coatings Pty Ltd 10 Powells Rd, BROOKVALE NSW 2100 B.H. (02) 9905 3283 A.H. (02) 9451 4657 G. M. Webb
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**End of MSDS**