



Material Safety Data Sheet

Issue Date: May 2010

FLOWMAX

1. PRODUCT AND SUPPLIER IDENTIFICATION

Product Name	FLOWMAX Anti Rejection Fluid
Other Names	Urethane Coatings FLOWMAX Anti Rejection Fluid
Product Use	Product is used to prevent fish eyes and cratering (rejection) when applying Urethane Coatings Polyurethane and Oil based timber finishes.
Company Name	Urethane Coatings Pty Ltd
ABN	98 105 086 397
Address	10 Powells Rd Brookvale NSW 2100
Telephone	(02) 9905 3283
Fax	(02) 9905 5688
Emergency Telephone	0412 818 817

2. HAZARDS IDENTIFICATION

Hazards Classification	According to the criteria of WorkSafe Australia, this product is classified hazardous.
Poisons Schedule	S5
Risk Phrases	R10, R20/22, R36/37/38, R51.
Safety Phrases	S02, S02/09/14, S07/8, S13, S15, S16, S20/21, S23, S24/25, S26, S28, S29, S35, S36/37/39, S38, S61, S62.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION
HAZARDOUS Methoxy Propyl Acetate	108-65-6	<50%



4. FIRST AID MEASURES

- Ingestion** Rinse mouth with water and give water to drink. Do NOT induce vomiting. If vomiting occurs, place person's face downwards, head lower than hips to prevent vomit entering lungs. Obtain medical attention and/or call poisons information centre, (Australia 131126).
- Eye** Irrigate affected eye(s) with copious quantities of water for 15 minutes, ensuring eyelids are held open. Seek medical advice if any pain or redness develops or persists.
- Skin** Wash affected and surrounding skin thoroughly with soap and water as soon as possible. Remove contaminated clothing and wash underlying skin. Launder clothing before re-use. If swelling, redness or irritation occurs seek medical advice.
- Inhalation** Inhalation of mists, fumes or vapour may cause irritation to the nose or throat - remove affected person to fresh air. If symptoms persist obtain medical assistance.
- Other Information** Eye wash fountains and safety showers should be easily accessible.
- Advice to Doctor** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Fire Hazards** Flammable liquid. Keep containers cool with water spray. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area.
- Extinguishing Media** Foam, carbon dioxide, dry chemical powder. Use water fog or water spray. Avoid spreading liquid and fire by water flooding.
- Fire Fighting Measures** Fire fighters to wear suitable personal protective clothing and equipment and to use self-contained breathing apparatus if risk of exposure to vapour or products of combustion.
- Hazchem Code** 3[Y]



6. ACCIDENTAL RELEASE MEASURES

Minor Spills Extinguish or remove all potential sources of ignition. Increase ventilation. Avoid physical contact with this product. 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.

Major 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 vermiculite. Ensure waste disposal conforms to Local, State and Federal regulations.

7. HANDLING AND STORAGE

Handling Use with adequate ventilation. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Flammable liquid. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc.) must be eliminated both in and near the work area. DO NOT smoke.

Storage Store in a cool, dry, well-ventilated area, away from sources of heat and ignition. Store away from oxidising agents and foodstuffs. Keep containers tightly closed when not in use. Ensure all containers are clearly labelled and check regularly for leaks. Store in accordance with AS 1940-1993 and conform to Local, State and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits¹ No specific data is available for this product. Component limits are as follows:

Name	mg/m ³ TWA	ppm TWA
Methoxy Propyl Acetate	274	50

Other Exposure Info Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms: Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week; peak limitation; or short term exposure limit (STEL).



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 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 to AS 1337.

Hand Protection Use chemical resistant rubber gloves. Refer to AS 2161.

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

Footwear Wear chemically impervious safety shoes/boots. Refer to AS 2210.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Odour	Ether-like odour
Density (g/l @ 25°C)	930
pH	Not applicable
Volatiles (v/v %)	Not available
Solubility	Practically insoluble in water, soluble in most organic solvents
Melting Point (°C)	Not available
Boiling Point (°C)	146
Vapour Pressure (mm Hg @ 20°C, 1 atm)	3.7
Flash Point (°C TAG closed cup)	46
Flammability Limits (v/v %)	1.5-10
Auto ignition temperature (°C)	>200
Rel. Vapour Density (Air = 1)	4.6
Evaporation Rate (relative to n-butyl acetate)	Not available
Molar mass (g/mol)	Mixture



10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Stability	Stable under normal conditions.
Materials to Avoid	Strong oxidising agents.
Conditions to Avoid	Sparks, heat, sources of ignition.
Decomposition Products	Oxides of carbon (CO ₂ , CO) and possibly nitrogen.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGY INFORMATION

Toxicology Information	Data is unavailable for this product. However, toxicology for component ingredient is as follows; Methoxy Propyl Acetate Irritation to upper respiratory tract, liver, and kidneys observed in animals.
Ingestion	Swallowing can cause nausea, and vomiting.
Eye Contact	An eye irritant – may cause irritation presenting as redness, tearing, and stinging.
Skin Contact	Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritation.
Inhalation	Inhalation of vapour may cause irritation to mucous membranes and respiratory tract. Vapours can affect the central nervous system and result in headaches, dizziness and nausea.
Chronic Effects	Prolonged or repeated contact with this product may cause allergic dermatitis.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity	Toxic to aquatic organisms. Avoid contaminating waterways, drains or sewers.
Mobility	Potential for mobility in soil is expected to be high.
Biodegradability	Biodegradation unknown.
Bioaccumulation	Bioaccumulation potential is expected to be low.



13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Ensure waste disposal conforms to Local, State and Federal regulations. Incineration is recommended where appropriate facility is available. Empty containers should be recycled or disposed of through a licensed contractor.
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14. TRANSPORTATION INFORMATION

Transport Information	Store and transport in accordance with AS 1940-1993 and Local, State, and Federal regulations. Classified as Dangerous Goods, Class 3 Flammable Liquid, by the criteria of the Australian Dangerous goods code (ADG Code) for Transport by Road and Rail.
UN number	1993
Proper Shipping Name	Flammable Liquid
DG Class	3
Hazchem Code	3[Y]
Packaging Method	
Packaging Group	III
EPG Number	
IERG Number	
IMDG	3.3
CAS NO	PROPRIETARY
Subsidiary Risk	Nil

15. REGULATORY INFORMATION

Poisons Schedule	S5
Packaging & Labelling	4 and 1 litre drums with 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.



16. OTHER INFORMATION

Contact Person/Point Urethane Coatings Pty Ltd
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A.H. 0412 818 817
G. M. Webb

Additional Information Updates the August 2004 issue to 16-part format.

1. Safe Work Australia, 1993, 'Adopted national exposure standards for atmospheric contaminants in the occupational environment', www.worksafeaustralia.gov.au [cited] 27 January 2010.

NOTICE to READERS

Urethane Coatings make no representation as to the completeness and accuracy of the data contained in this MSDS. It is the user's obligation to evaluate and use this data, and to comply with all relevant Federal, State and Local Government laws and regulations. Urethane Coatings shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendations contained herein, from abnormal use of the material, or from any hazard inherent in the nature of the material.

End of MSDS