



Material Safety Data Sheet

Issue Date: May 2010

THINNERS

1. PRODUCT AND SUPPLIER IDENTIFICATION

Product Name	THINNERS
Other Names	Urethane Coatings Thinners
Product Use	Product is used as a reducer/thinner for TIMBERSEAL, MONOTHANE and DUOTHANE.
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 as hazardous.
Poisons Schedule	S6
Risk Phrases	R11, R23/24/25, R36/37/38, R51.
Safety Phrases	S02, S03/09/14, S07, S13, S15, S16, S17, S20/21, S23, S24/25, S26, S28, S29, S33, S35, S36/37/39, S38, S41, S61, S62.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY:	CAS No:	PROPORTION:
HAZARDOUS		
Xylene	1330-20-7	60-90%
Methyl Isobutyl Ketone	108-10-1	10-40%



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, ensuring head is lower than hips to prevent vomit entering lungs. Obtain medical attention and/or call poisons information centre, (Australia 131126).
- Eye** Immediately 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 skin and surrounding area 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 irritate the nose or throat. Remove affected person to fresh air. Commence artificial respiration if needed. 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. May form flammable mixtures with air. 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. STORAGE AND HANDLING

- 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
Xylene	350	80
Methyl Isobutyl Ketone	205	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 DESCRIPTION/PROPERTIES

Appearance	Clear liquid
Odour	Aromatic odour
Density (g/l @ 25°C)	865
pH	Not applicable
Volatiles (v/v %)	Not available
Solubility	Not soluble in water, soluble in most organic solvents
Melting Point (°C)	Not available
Boiling Point (°C)	>110
Vapour Pressure (mm Hg @ 20°C, 1 atm)	22.5
Flash Point (°C ABEL)	4
Flammability Limits (v/v %)	1.3-7
Auto ignition temperature (°C)	>250
Rel. Vapour Density (Air = 1)	3.1
Evaporation Rate (relative to n-butyl acetate)	2.2
Molar mass (g/mol)	Mixture



10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

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

11. TOXICOLOGICAL INFORMATION

Toxicology Data is unavailable for this product. However, toxicology for component ingredients is as follows:

Xylene

Oral LD 50: Rat: 3500 mg/Kg.

Dermal LD 50: Rabbit: Skin 17800 uL/Kg.

Methyl Isobutyl Ketone

Oral LD 50: Rat: 2080 mg/Kg.

Dermal LD 50: Rabbit: Skin >3g/Kg.

Ingestion Swallowing can cause nausea, vomiting and central nervous system depression. If the affected person is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications.

Eye Contact May cause eye irritation.

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 irritant contact dermatitis.

Inhalation Vapour may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Chronic Effects Repeated or prolonged exposure to this chemical could result in central nervous system disorders.



12. ECOLOGICAL INFORMATION

Aquatic Toxicity	Toxic to aquatic organisms. Prevent release into waterways.
Mobility	Highly mobile in soil.
Biodegradability	Readily biodegradable.
Bioaccumulation	No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Recycle or recover if possible. Disposal of product should conform to Local, State, and Federal regulations. Incineration is recommended for the disposal of this product where available. Empty containers should be recycled or disposed through a licensed contractor.
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14. TRANSPORT 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	1263
Proper Shipping Name	Paint
DG Class	3
Hazchem Code	3[Y]
Packaging Method	
Packaging Group	II
EPG Number	
IERG Number	
IMDG:	
CAS NO.:	PROPRIETARY
Subsidiary:	Nil



15. REGULATORY INFORMATION

Poisons Schedule	S6
Packaging & Labelling	20, 10, 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 6 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 10 Powells Rd, BROOKVALE NSW 2100 B.H. (02) 9905 3283 A.H. 0412 818 817 G. M. Webb
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Additional Information Updates the August 2004 issue to a 16 part format MSDS

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