



Material Safety Data Sheet

Issue Date: May 2010

MONOTHANE

1. PRODUCT AND SUPPLIER IDENTIFICATION

Product Name	MONOTHANE
Other Names	Urethane Coatings MONOTHANE HS 50 GLOSS, MONOTHANE 45 GLOSS, MONOTHANE 44 GLOSS, MONOTHANE SEMI-GLOSS, MONOTHANE SATIN, and MONOTHANE MATT.
Product Use	Product is used as a finish for timber, parquetry, and cork.
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	Hazardous according to the criteria of WorkSafe Australia.
Poisons Schedule	S5
Risk Phrases	R10, R23/24/25, R48/20, R52.
Safety Phrases	S02, S03/09/14, S07/8, S13, S14, S16, S21, S23, S24/25, S29, S30, S35, S36/37/39, S38, S61, S62.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION
HAZARDOUS		
Solvesso 100	64742-95-6	20-50%
N-Butyl Acetate	123-86-4	<10%
Toluene Diisocyanate	26471-62-5	<1%



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 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** Product contains small concentrations of free Toluene Diisocyanate.

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 or 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. Ensure containers are well sealed to prevent contact with moisture.

Storage Store in a cool, 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
Solvesso 100	125	25
N-Butyl Acetate	713	150
Toluene Diisocyanate	0.02	

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 to 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, pale straw coloured liquid
Odour	Mild aromatic odour
Density (g/l @ 25°C)	959-989
pH	Not applicable
Volatiles (v/v %)	49-58
Solubility	Not soluble in water
Melting Point (°C)	Not available
Boiling Point (°C)	155-176*
Vapour Pressure (mm Hg @ 25°C, 1 atm)	<10*
Flash Point (°C TAG closed cup)	43*
Flammability Limits (v/v %)	0.9-7*
Auto ignition temperature (°C)	Not available
Rel. Vapour Density (Air = 1)	4.25*
Evaporation Rate (relative to n-butyl acetate)	0.21*
Molar mass (g/mol)	Mixture
(* For Solvesso 100)	



10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

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

11. TOXICOLOGY INFORMATION

Toxicology	<p>Data for this product is unavailable. However, information for component ingredients is as follows.</p> <p>Solvesso 100 Acute oral toxicity (rat): Low toxicity. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. Acute Skin toxicity: (rat) low toxicity. Acute Inhalation toxicity (rat). Greater than near-saturated vapour concentration. In high concentrations leads to CNS depression, resulting in headaches, dizziness and nausea, continued inhalation may result in unconsciousness and or death.</p> <p>Toluene Diisocyanate Oral (rat): Highly toxic. Inhalation (rat): Highly toxic. Acute skin toxicity (rabbit): severe irritant. (human): a skin sensitiser. Eye (rabbit): severe irritant.</p>
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	An eye irritant - may cause irritation presenting as redness, tearing, pain and stinging.
Skin Contact	Defatting. Prolonged contact with skin may result in irritation, dermatitis, or allergic eczema.



Inhalation May cause irritation to the nose, throat and eyes, and possibly narcosis. May be accompanied by coughing, choking or laboured breathing. Asthma-like breathing may be a delayed reaction.

Chronic Effects Repeated contact can result in allergic eczema and also bronchial asthma.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Harmful to aquatic organisms. Avoid contaminating waterways.

Mobility Soil mobility expected to be low.

Biodegradability No data available.

Bioaccumulation Potential for bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Ensure waste disposal conforms to Local, State and Federal regulations. Once cured or absorbed, disposal by landfill after appropriate treatment is recommended. Empty containers should be recycled or disposed of through a licensed contractor. Care should be taken with the handling of empty containers, which may contain product residue.

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	1866
Proper Shipping Name	Resin solution
DG Class	3
Hazchem Code	3[Y]
Packaging Method	
Packaging Group	III
EPG Number	3A1
IERG Number	
IMDG	3.3
CAS No	PROPRIETARY
Subsidiary Risk	Nil



15. REGULATORY INFORMATION

Poisons Schedule	S5
Packaging and 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 5 poison.
Shelf Life	This product is best if used within 12 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
-----------------------------	---

Additional Information Updates the September 2006 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