



## Material Safety Data Sheet

Issue Date: May 2010

### DUOTHANE PART B

#### 1. PRODUCT AND SUPPLIER IDENTIFICATION

<b>Product Name</b>	DUOTHANE Part B
<b>Other Names</b>	Urethane Coatings DUOTHANE Part B
<b>Product Use</b>	This product is used in conjunction with DUOTHANE Part A, or DUOTHANE FAST A as a sealer and finish for timber parquetry and cork.
<b>Company Name</b>	Urethane Coatings Pty Ltd
<b>ABN</b>	98 105 086 397
<b>Address</b>	10 Powells Rd Brookvale NSW 2100
<b>Telephone</b>	(02) 9905 3283
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<b>Emergency Telephone</b>	0412 818 817

#### 2. HAZARDS IDENTIFICATION

<b>Hazards Classification</b>	According to the criteria of WorkSafe Australia, this product is classified as hazardous.
<b>Other Information</b>	This product is used in conjunction with DUOTHANE Part A or DUOTHANE FAST A. The MSDS of DUOTHANE Part A or DUOTHANE FAST A must be read and considered in conjunction with this MSDS.
<b>Poison Schedule</b>	S5
<b>Risk Phrases</b>	R10, R23/24/25, R36/37/38, R51.
<b>Safety Phrases</b>	S02, S03/09/14, S07/8, S13, S15, S16, S21, S23, S24/25, S27, S35, S36/37/39, S38, S61, S62.



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION
HAZARDOUS		
Solvesso 100	64742-95-6	10-30%
Xylene	1330-20-7	0-10%
N-Butyl Acetate	123-86-4	<10%
Toluene Diisocyanate	26471-62-5	<1%

### 4. FIRST AID MEASURES

<b>Ingestion</b>	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).
<b>Eye</b>	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.
<b>Skin</b>	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.
<b>Inhalation</b>	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.
<b>Other Information</b>	Eye wash fountains and safety showers should be easily accessible.
<b>Advice to Doctor</b>	Product contains small concentrations of free Toluene Diisocyanate.

### 5. FIRE FIGHTING MEASURES

<b>Fire Hazard</b>	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.
<b>Extinguishing Media</b>	Foam, carbon dioxide, dry chemical powder. Use water fog, or water spray. Avoid spreading liquid and fire by water flooding.
<b>Fire Fighting Measures</b>	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]

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## 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, 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 Limits<sup>1</sup>** No specific data is available for this product. Component limits are as follows:

Name	mg/m <sup>3</sup> TWA	ppm TWA
Solvesso 100	125	50
Xylene	350	80
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 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

<b>Appearance</b>	Clear pale straw liquid
<b>Odour</b>	Mild aromatic odour
<b>Density (g/l @ 25°C)</b>	980
<b>pH</b>	Not applicable
<b>Volatiles (v/v %)</b>	56
<b>Solubility</b>	Insoluble in water
<b>Melting Point (°C)</b>	Not available
<b>Boiling Point (°C)</b>	>149
<b>Vapour Pressure (mm Hg @ 20°C, 1 atm)</b>	1.5-9.7 (Solvesso 100)
<b>Flash Point (°C closed cup)</b>	>38
<b>Flammability Limits (v/v %)</b>	0.9-7.0*
<b>Auto ignition temperature (°C)</b>	Not available
<b>Rel. Vapour Density (Air = 1)</b>	4.26*
<b>Evaporation Rate (relative to n-butyl acetate)</b>	0.3*
<b>Molar mass (g/mol)</b>	Mixture



## 10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

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

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology</b>	<p>Data for this product is unavailable. However, information for component ingredients is as follows.</p> <p><b>Solvesso 100</b> 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><b>Toluene Diisocyanate</b> Oral (rat): Highly toxic Inhalation (rat): Highly toxic Acute skin toxicity (rabbit): severe irritant. (human): a skin sensitiser. Eye (rabbit): severe irritant</p>
<b>Ingestion</b>	Swallowing can cause nausea, vomiting and Central Nervous System depression. If the affect person is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications.
<b>Eye Contact</b>	An eye irritant - may cause irritation presenting as redness, tearing, pain and stinging.
<b>Skin Contact</b>	Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may result in allergic eczema.
<b>Inhalation</b>	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.
<b>Chronic Effects</b>	Repeated contact can result in allergic eczema and also bronchial asthma.



## 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity</b>	Harmful to aquatic organisms. Avoid contaminating waterways.
<b>Soil Mobility</b>	Soil mobility expected to be low.
<b>Biodegradability</b>	No data available.
<b>Bioaccumulation</b>	Potential for bioaccumulation.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	Ensure waste disposal conforms to Local, State and Federal regulations. Recover and recycle from any spillage if possible. 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 empty packaging, which may contain product residue that may be harmful.
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## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	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.
<b>UN number</b>	1866
<b>Proper Shipping Name</b>	Resin solution, flammable
<b>DG Class</b>	3
<b>Hazchem Code</b>	3[Y]
<b>Packaging Method</b>	
<b>Packaging Group</b>	III
<b>EPG Number</b>	3A1
<b>IERG Number</b>	
<b>IMDG:</b>	3.3
<b>CAS No</b>	PROPRIETARY
<b>Subsidiary Risk</b>	Nil



## 15. REGULATORY INFORMATION

<b>Poisons Schedule</b>	S5
<b>Packaging and Labelling</b>	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.
<b>Shelf Life</b>	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

<b>Contact Person/Point</b>	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 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](http://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