

**URETHANE COATINGS P/L**  
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## Material Safety Data Sheet

*Issue Date: August 2004*

### DUOTHANE

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

### PRODUCT IDENTIFICATION

<b><u>PRODUCT NAME:</u></b>	DUOTHANE Part A DUOTHANE Part B
<b><u>UN NO.:</u></b>	1866
<b><u>CAS NO.:</u></b>	PROPRIETARY
<b><u>SUB. RISK:</u></b>	N/A
<b><u>G.T. EPG.:</u></b>	3A1
<b><u>IMDG:</u></b>	3.3
<b><u>CORRECT SHIPPING NAME:</u></b>	RESIN SOLUTION, flammable (ii) Water immiscible
<b><u>OTHER NAMES:</u></b>	URETHANE PREPOLYMER SYNTHETIC RESIN
<b><u>MANUF. MANCODE:</u></b>	URECOAT
<b><u>PRODUCT USE:</u></b>	Product is used as a cork & timber finish.
<b><u>D.G. CLASS:</u></b>	3
<b><u>HAZCHEM:</u></b>	3 (Y)
<b><u>SUSDP:</u></b>	SHL5 (NSW)
<b><u>SPEC. EPG.:</u></b>	N/A
<b><u>PACK. GRP.:</u></b>	III

### INGREDIENTS

<b><u>CHEMICAL ENTITY:</u></b>	<b><u>CAS No:</u></b>	<b><u>PROPORTION:</u></b>
HAZARDOUS		
Solvesso 100	64742-95-6	20-30%
Xylene	1330-20-7	0-15%
N-Butyl Acetate	123-86-4	<10%
Toluene Diisocyanate	26471-62-5	0.8%

### PHYSICAL DESCRIPTION / PROPERTIES

- **APPEARANCE:** Clear amber liquid with mild aromatic odour.
- **BOILING POINT (C):** 155 – 175 \*
- **VAPOUR PRESSURE (38 C):** 1.7 kPa \*
- **VOLATILE COMPONENT (% by volume):** 56
- **SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.98 \*
- **FLASH POINT (C Tag closed cup):** 38 \*
- **FLAMMABILITY LIMITS (%):** 0.9 - 7.0 \*

- **REL. VAPOR DENSITY (Air = 1):** 4.25 \*
- **FORM:** Liquid
- **OTHER PROPERTIES:**
- **Evaporation rate (Butyl acetate = 1):** 0.3 \*

\* For Solvesso 100

## HEALTH EFFECTS

<b>Acute – Ingestion</b>	Swallowing can cause nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications.
<b>Acute – Eye</b>	A severe eye irritation.
<b>Acute – Skin</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>ACUTE - INHALED</b>	May cause irritation to the nose, throat and eyes; possibly narcosis. May be accompanied by coughing, choking or laboured breathing. Asthma-like breathing may be delayed reaction.
<b>CHRONIC EFFECTS</b>	Repeated contact can result in allergic eczema and also bronchial asthma.

## FIRST AID

<b>Ingestion</b>	Rinse mouth with water. 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. Seek immediate medical advice and/or call poisons information centre, Australia 131126.
<b>Eye</b>	Irrigate with copious quantities of water for 15 minutes, ensure eyelids are held open. Seek medical advice if any pain 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.
<b>Inhalation</b>	Inhalation of mists, fumes or vapour may irritate the nose or throat. Remove to fresh air. Employ artificial respiration if needed. If symptoms persist obtain medical assistance.
<b>Other Information</b>	Eye wash fountains and safety showers should be easily accessible.

## ADVICE TO DOCTOR

**Advice to Doctor** Product contains small concentrations of free toluene diisocyanate.

## PRECAUTIONS FOR USE

### Exposure Limits

<b>Name</b>	<b>Mg/m<sup>3</sup> TWA</b>	<b>ppm TWA</b>
Solvesso 100	100	50
Xylene	350	80
N-Butyl Acetate	95	20
Toluene Diisocyanate		0.005

**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** Ensure ventilation is adequate to maintain air concentrations below exposure standards. Keep containers closed when not in use. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected.

## 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

**Fire Hazards** 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.

## 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. Store away from sources of heat or ignition. Store away from oxidising agents and foodstuffs. Keep containers closed when not in use. Check regularly for leaks.

### 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

**Fire/Explos. Hazards** 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. Use water fog. Use water spray.  
Avoid spreading liquid and fire by water flooding.

**Hazardous Reaction** 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), possibly oxides of nitrogen. HAZARDOUS  
POLYMERIZATION: Will not occur.

**Hazchem Code** 3[Y]E

## OTHER INFORMATION

### OTHER SAFE HANDLING INFORMATION

Use with adequate ventilation.  
Avoid prolonged breathing of vapour.  
Avoid prolonged repeated contact with skin.  
Ensure containers are well sealed to prevent contact with moisture.

**Packaging and Labelling** 20 Litre drums containing 19.6Kg,  
10 Litre drums containing 9.8Kg.  
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.

## CONTACT POINT

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## End of MSDS