



## Material Safety Data Sheet

Issue Date: May 2010

### TUNGSEAL

#### 1. PRODUCT AND SUPPLIER IDENTIFICATION

<b>Product Name</b>	TUNGSEAL
<b>Other Names</b>	Urethane Coatings TUNGSEAL
<b>Product Use</b>	Product is used 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
<b>Fax</b>	(02) 9905 5688
<b>Emergency Telephone</b>	0412 818 817

#### 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	According to the criteria of WorkSafe Australia, this product is classified as hazardous.
<b>Poisons Schedule</b>	S5
<b>Risk Phrases</b>	R10, R20/21/22, R36/37/38, R52.
<b>Safety Phrases</b>	S02, S03/09/14, S07/8, S13, S15, S16, S20/21, S23, S24/25, S26, S28, S29, S30, S33, S35, S36/37/39, S38, S41, S61, S62.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL ENTITY	CAS No	PROPORTION
HAZARDOUS White Spirits	64742-88-7	<60%



## 4. FIRST AID MEASURES

<b>Ingestion</b>	Rinse mouth immediately with water and give water to drink. Do NOT induce vomiting. If vomiting occurs, place affected 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 personnel 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>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Fire Hazards</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.
<b>Hazchem Code</b>	3[Y]

## 6. ACCIDENTAL RELEASE MEASURES

<b>Minor Spills</b>	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.
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**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 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
White Spirits	None Specified*	None Specified*

\* No Time Weighted average concentration (TWA) for White Spirit has been established but consider 5 g/m<sup>3</sup>, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week.

**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:

<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	Use safety glasses, chemical goggles or face shield as appropriate, refer to AS 1337.
<b>Hand Protection</b>	Use chemical resistant rubber gloves, refer to AS 2161.
<b>Protective Clothing</b>	Use long sleeved chemical resistant overalls, fastened at neck and wrists, refer to AS 3765.
<b>Footwear</b>	Wear chemically impervious safety shoes/boots, refer to AS 2210.
<b>Work/Hygienic Practices</b>	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 violet coloured liquid
<b>Odour</b>	Mild aromatic
<b>Density (g/l @ 25°C)</b>	890
<b>pH</b>	Not applicable
<b>Volatiles (v/v %)</b>	60
<b>Solubility</b>	Not soluble in water
<b>Melting Point (°C)</b>	Not available
<b>Boiling Point (°C)</b>	145-200*
<b>Vapour Pressure (kPa @ 20°C)</b>	0.248*
<b>Flash Point (°C)</b>	35*
<b>Flammability Limits (v/v %)</b>	1.0-7.5*
<b>Auto ignition temperature (°C)</b>	>200*
<b>Rel. Vapour Density (g/ml @ 20°C)</b>	>1.00*
<b>Evaporation Rate (relative to n-butyl acetate)</b>	Not available
<b>Molar mass (g/mol)</b>	Mixture
(* For White Spirit)	



## 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 nitrogen, and various hydrocarbons.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology</b>	Data is unavailable for this product. However, toxicology for component ingredient white spirits is as follows;
<b>WHITE SPIRITS</b>	Acute oral toxicity (rat): low toxicity. Aspiration into the lungs when swallowed may cause chemical pneumonitis. Acute skin toxicity (rat): low toxicity. Acute inhalation toxicity (rat): Low toxicity. High concentrations may cause CNS depression.
<b>Ingestion</b>	Swallowing or vomiting may lead to aspiration into the lungs, causing pneumonitis or pulmonary oedema. Ingestion will result in headaches, nausea, dizziness and tracheal burning.
<b>Eye Contact</b>	A moderate eye irritant - may cause redness, tearing, or blurred vision.
<b>Skin Contact</b>	Prolonged exposure may cause skin irritation, dryness and cracking.
<b>Inhalation</b>	Irritating to respiratory tract. Prolonged exposure to large concentrations will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
<b>Chronic Effects</b>	Repeated or prolonged exposure to this product may result in defatting of the skin and subsequent dermatitis. Sensitivity to this product may occur in persons with existing skin and respiratory conditions.



## 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity</b>	Harmful to aquatic organisms. Avoid contamination of drainage systems and waterways.
<b>Mobility</b>	No data available.
<b>Biodegradable</b>	No data available however has potential to oxidise under UV light.
<b>Bioaccumulation</b>	Has the potential to bio accumulate.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	Ensure waste disposal conforms to Local, State and Federal regulations. After product has cured or absorbed, disposal by landfill. 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
<b>DG Class</b>	3
<b>Hazchem Code</b>	3[Y]
<b>Packaging Method</b>	
<b>Packaging Group</b>	III
<b>EPG Number</b>	
<b>IERG Number</b>	
<b>IMDG:</b>	3.3
<b>CAS NO.:</b>	PROPRIETARY
<b>SUBSISIARY 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

**Contact Person/Point** Urethane Coatings Pty Ltd  
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BROOKVALE NSW 2100  
B.H. (02) 9905 3283  
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](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