



Material Safety Data Sheet

Issue Date: May 2010

TUNGSEAL

1. PRODUCT AND SUPPLIER IDENTIFICATION

Product Name	TUNGSEAL
Other Names	Urethane Coatings TUNGSEAL
Product Use	Product is used as a sealer and 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

Hazard Classification	According to the criteria of WorkSafe Australia, this product is classified as hazardous.
Poisons Schedule	S5
Risk Phrases	R10, R20/21/22, R36/37/38, R52.
Safety Phrases	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

Ingestion	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).
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 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 personnel 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. 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.
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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 Limits¹

No specific data is available for this product. Component limits are as follows:

Name	mg/m ³ 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/m³, 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:

- 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 violet coloured liquid
Odour	Mild aromatic
Density (g/l @ 25°C)	890
pH	Not applicable
Volatiles (v/v %)	60
Solubility	Not soluble in water
Melting Point (°C)	Not available
Boiling Point (°C)	145-200*
Vapour Pressure (kPa @ 20°C)	0.248*
Flash Point (°C)	35*
Flammability Limits (v/v %)	1.0-7.5*
Auto ignition temperature (°C)	>200*
Rel. Vapour Density (g/ml @ 20°C)	>1.00*
Evaporation Rate (relative to n-butyl acetate)	Not available
Molar mass (g/mol)	Mixture
(* For White Spirit)	



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, and various hydrocarbons.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology	Data is unavailable for this product. However, toxicology for component ingredient white spirits is as follows;
WHITE SPIRITS	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.
Ingestion	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.
Eye Contact	A moderate eye irritant - may cause redness, tearing, or blurred vision.
Skin Contact	Prolonged exposure may cause skin irritation, dryness and cracking.
Inhalation	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.
Chronic Effects	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

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

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	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

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:	3.3
CAS NO.:	PROPRIETARY
SUBSISIARY 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 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 [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