

URETHANE COATINGS P/L  
10 POWELLS RD  
BROOKVALE NSW 2100

Phone: (02) 9905 3283

Fax: (02) 9905 5688

A.B.N. 98 105 086 397

## Material Safety Data Sheet

Issue Date: August 2004

### TUNGSEAL

#### PRODUCT IDENTIFICATION

**PRODUCT NAME:** TUNGSEAL

**HAZARDOUS SUBSTANCE** No (As per the criteria of WorkSafe Australia).

**CAS NO.:** PROPRIETARY

**UN NO.:** 1866

**D.G. CLASS:** 3

**HAZCHEM:** 3[Y]

**PACK. GRP.:** III

**POISONS SCHEDULE:** S5

**SUBSISIARY RISK:** Nil

**MANUF. MANCODE:** URECOAT

**PRODUCT USE:** Binder for surface coatings.

#### INGREDIENTS

<u>CHEMICAL ENTITY:</u>	<u>CAS No:</u>	<u>PROPORTION:</u>
Resin	Proprietary	30-35%
White Spirits	64742-88-7	60-65%

#### PHYSICAL DESCRIPTION / PROPERTIES

- **APPEARANCE:** Clear Yellow Liquid.
- **BOILING POINT (°C):** 149 – 196 (Range) (Mineral Turpentine)
- **VAPOUR PRESSURE (@ 38°C):** 0.8 kPa (Mineral Turpentine)
- **SPECIFIC GRAVITY (@ 25°C):** 0.890
- **FLASH POINT (°C):** 37 (TAG Closed Cup) (Mineral Turpentine)
- **FLAMMABILITY LIMITS**
- **(% By Volume):** 1.0 – 7.5 (Mineral Turpentine)
- **REL. VAPOR DENSITY (Air = 1):** 4.5 (Mineral Turpentine)
- **PERCENT VOLATILES:** 40

**OTHER PROPERTIES:**

Auto ignition Temp. (°C): 250 (Mineral Turpentine)

**HEALTH EFFECTS**

<b>Acute – Ingestion</b>	Ingestion can result in nausea, vomiting and diarrhoea.
<b>Acute – Eye</b>	A moderate eye irritant. May cause redness, tearing or blurred vision.
<b>Acute – Skin</b>	Contact with the skin may result in mild irritation.
<b>Acute – Inhalation</b>	Vapour is irritant to mucous membranes and respiratory tract. Inhalation of high concentrations can cause central nervous system depression with effects such as loss of co-ordination, impaired judgement, headache, and if exposure is prolonged, unconsciousness.
<b>Chronic</b>	Prolonged or repeated skin contact may lead to defatting and dermatitis.

**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. This is especially important as aspiration of this material into the lungs can cause Chemical Pneumonitis that can be fatal. 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. If swelling, redness, blistering or irritation occurs seek medical advice.
<b>Inhalation</b>	If affected remove the casualty to fresh air, taking care not to become a casualty yourself. Remove any contaminated clothing and loosen remaining clothing. If breathing is normal allow the patient to assume the most comfortable position and keep warm. Keep at rest until fully recovered. If breathing is difficult and patient is cyanotic (blue) ensure airways are clear and have a qualified person administer oxygen. If breathing has stopped commence Expired Air Resuscitation (C.P.R.) and seek urgent medical attention.
<b>Other Information</b>	Eye wash fountains and safety showers should be easily accessible.

**ADVICE TO DOCTOR**

<b>Advice to Doctor</b>	Treat symptomatically.
-------------------------	------------------------

## OTHER HEALTH HAZARD INFORMATION

### PRECAUTIONS FOR USE

#### Exposure Limits

No value has been assigned for this specific material. However the Exposure Standard for Mineral Turpentine, as published by Worksafe Australia 1995, is as below:

Name	Mg/m <sup>3</sup> TWA	ppm TWA
Mineral Turpentine	480	

**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.

**ECOMPOSITION OR BYPRODUCTS:** Oxides of carbon. (CO<sub>2</sub>, CO), and various hydrocarbons. HAZARDOUS

**POLYMERIZATION:** Will not occur.

**OTHER INFORMATION****Packaging and Labelling**

20 Litre drums containing 17.8Kg,

10 Litre drums containing 8.9Kg.

Class 3 labels according to Australian Code for Transport of Dangerous Goods and labels to meet the requirements of a Schedule 5 poison.

**Hazchem Code**

3[Y]E

**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****Contact**

Urethane Coatings Pty Ltd  
10 Powells Road,  
BROOKVALE NSW 2100  
B.H. (02) 9905 3283  
A.H. (02) 9451 4657  
G.M. Webb

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**