

**PRODUCT NAME** OSMOSE PROTIM-SOLIGNUM RESEAL SUPPLEMENTARY TIMBER PROTECTIVE

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** OSMOSE (AUSTRALIA) PTY LTD  
**Address** Cafpirco Road, Mount Gambier, SA, AUSTRALIA, 5290  
**Telephone** (08) 8723 1399  
**Fax** (08) 8732 0010  
**Emergency** 1800 088 809  
**Email** customerservices@osmose.com.au  
**Web Site** <http://www.osmose.com.au>

**Synonym(s)** PROTIM TIMBER SEAL • RESEAL • RESEAL TIMBER PROTECTOR • OSMOSE PROTIM RESEAL SUPPLEMENTARY TIMBER PROTECTIVE • PROTIM TIMBERCARE RESEAL

**Use(s)** TIMBER PRESERVATIVE

**MSDS Date** 19 March 2007

### 2. HAZARDS IDENTIFICATION

#### CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

##### RISK PHRASES

R21 Harmful in contact with skin.  
 R25 Toxic if swallowed.  
 R26 Very toxic by inhalation.  
 R37/38 Irritating to respiratory system and skin.  
 R41 Risk of serious damage to eyes.  
 R43 May cause sensitisation by skin contact.  
 R46 May cause heritable genetic damage.  
 R49 May cause cancer by inhalation.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### SAFETY PHRASES

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).  
 S53 Avoid exposure - obtain special instructions before use.  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

#### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>UN No.</b>	2588	<b>DG Class</b>	6.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	II	<b>Hazchem Code</b>	2X	<b>EPG</b>	6A5

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
COPPER (II) SULPHATE	Cu-S-O4	7758-98-7	10-20%
SODIUM DICHROMATE	Cr2-O7.2Na	10588-01-9	10-20%
BORIC ACID	B-H3-O3	10043-35-3	40-50%
SALTS	Not Available	Not Available	Not Available

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#### **4. FIRST AID MEASURES**

<b>Eye</b>	Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.
<b>Inhalation</b>	Leave area of exposure immediately. If assisting a victim avoid becoming a casualty, wear a Full-Face Class P3 (Particulate) respirator where an inhalation risk exists. If victim is not breathing apply artificial respiration and seek urgent medical attention.
<b>Skin</b>	Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.
<b>Advice to Doctor</b>	Treat symptomatically

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#### **5. FIRE FIGHTING MEASURES**

<b>Flammability</b>	Non flammable. May evolve toxic hexavalent chromium oxides when heated to decomposition. Oxidising agent, may cause fire/explosion upon contact with combustible/organic materials. May evolve metal oxides when heated to decomposition.
<b>Fire and Explosion</b>	Non flammable. Evacuate area and contact emergency services. Toxic gases (chromium oxides) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>Hazchem Code</b>	2X

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#### **6. ACCIDENTAL RELEASE MEASURES**

<b>Spillage</b>	If spilt (bulk), contact emergency services. Wear butyl/rubber gloves, a full-face Class P3 respirator or Full-face Air-line respirator, coveralls, apron and boots. Ventilate and clear area of all unprotected personnel. Collect without generating dust. Absorb with vermiculite or similar, NOT combustible or organic materials. Collect and place in sealable containers. Don't reuse spilt material.
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#### **7. STORAGE AND HANDLING**

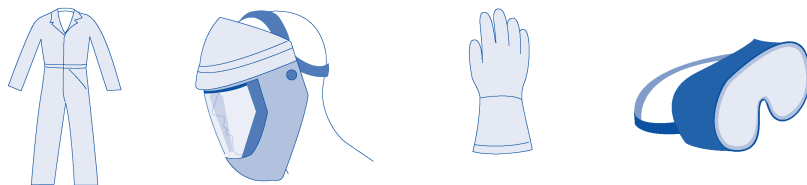
<b>Storage</b>	Store in cool, dry, well ventilated area, removed from combustibles, reducing agents, active metals, sulphur, resins, plastics and foodstuffs. Contamination with incompatibles may cause fire-explosions. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.
<b>Handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Standards</b>	COPPER (II) SULPHATE (7758-98-7) ES-TWA: 1 mg/m <sup>3</sup> (Copper dusts/ mists) SODIUM DICHROMATE (10588-01-9) ES-TWA: 0.05 mg/m <sup>3</sup> Chromium (VI) compound, water soluble
<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Do not inhale dust/powder. This product should be used in a fume cupboard or with localised extraction ventilation. Maintain dust levels below the recommended exposure standard.
<b>PPE</b>	Wear dust-proof goggles, butyl or rubber gloves, coveralls and a faceshield. Where an inhalation risk exists, wear a Full-face Class P3 (Particulate) or an Air-line respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	OFF-WHITE TO BROWN POWDER (ORANGE/BROWN IN SOLUTION)	<b>Solubility (water)</b>	SOLUBLE
<b>Odour</b>	SHARP IRRITATING ODOUR	<b>Specific Gravity</b>	1.5
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE	<b>Autoignition Temperature</b>	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

<b>Material to Avoid</b>	Oxidising agent. Incompatible (explosively) combustible materials (eg. organic solvents), reducing agents, active metals (eg. lithium, aluminium), sulphur and some plastics and resins.
<b>Decomposition</b>	May evolve toxic hexavalent chromium oxides when heated to decomposition. May evolve metal oxides when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

<b>Health Hazard Summary</b>	Highly toxic - corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid all exposure. Potential skin and respiratory sensitising agent. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<b>Eye</b>	Highly corrosive - severe irritant. Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.
<b>Inhalation</b>	Highly toxic - corrosive. Over exposure may result in upper respiratory and mucous membrane irritation, ulceration and perforation of the nasal septum. Respiratory sensitiser. Chronic exposure may result in liver, lung and kidney damage. Hexavalent chromium is classified as carcinogenic to humans (IARC Group 1).
<b>Skin</b>	Corrosive - irritant. Prolonged contact may result in skin rash, dermatitis, ulceration and burns. Sensitising agent. Toxic effects may result through absorption.
<b>Ingestion</b>	Toxic - corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea with ulceration and perforation of the gastrointestinal tract. Liver and kidney damage may result.
<b>Toxicity Data</b>	COPPER (II) SULPHATE (7758-98-7) LD50 (Ingestion): 300 mg/kg (rat) SODIUM DICHROMATE (10588-01-9) Health Surveillance: Required [NOHSC:1005(1994)] LD50 (Ingestion): 50 mg/kg (rat) BORIC ACID (10043-35-3) LD50 (Ingestion): 2660 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

<b>Environment</b>	WATER: Chromium (VI) may be reduced to Chromium (III) by organic matter present in water, and may eventually deposit in sediments. Toxic to microorganisms. May bioaccumulate. SOIL: Chromium in the soil may be transported from soil through runoff and leaching of water. ATMOSPHERE: Chromium is primarily removed from the atmosphere by fallout and precipitation and may enter surface water or soil.
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Wearing personal protective equipment, cover with a WEAK reducing agent (eg. sodium bisulphite, thiosulphate, or ferrous salt; but NOT sulphur, carbon or strong reducing agent). Mix well and spray with water. Add 3M sulphuric acid if sulphite or ferrous salt is used. Add to container of water and neutralise with soda ash. Collect and
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dispose of to approved landfill site. Contact the manufacturer for additional information.

**Legislation** Dispose of in accordance with relevant local legislation.

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## 14. TRANSPORT INFORMATION

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### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>Shipping Name</b>	PESTICIDE, SOLID, TOXIC, N.O.S.				
<b>UN No.</b>	2588	<b>DG Class</b>	6.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	II	<b>Hazchem Code</b>	2X	<b>EPG</b>	6A5

#### IATA

<b>Shipping Name</b>	PESTICIDE, SOLID, TOXIC, N.O.S.				
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<b>Pkg Group</b>	II				

#### IMDG

<b>Shipping Name</b>	PESTICIDE, SOLID, TOXIC, N.O.S.				
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## 15. REGULATORY INFORMATION

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**Poison Schedule** Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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## 16. OTHER INFORMATION

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**Additional Information** IARC - GROUP 1 - CONFIRMED HUMAN CARCINOGEN. This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

CHROMATES - CHROMIUM PRODUCTS: Asthma sufferers, respiratory impaired or previously sensitised (respiratory or skin) individuals are advised to avoid all exposure to chromium or chromate based products.

CHROMIUM: the most common form of chromium found in nature and in biological materials is trivalent (III) chromium which is poorly absorbed into the body. Chromium (VI) is readily absorbed where it is converted intracellularly to the carcinogenic chromium (III) form. Chromium (VI) is classified as carcinogenic to humans (IARC Group 1). Chromium (III) is not classifiable as to its carcinogenicity in humans (IARC Group 3).

#### ABBREVIATIONS:

ADB - Air-Dry Basis.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m<sup>3</sup> - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

TWA/ES - Time Weighted Average or Exposure Standard.

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**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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**MSDS Date:** 19 March 2007

**End of Report**