

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

**Use(s)**                 TIMBER PRESERVATIVE

**SDS Date**            04 Mar 2010

### 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC 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>Packing 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%

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SODIUM DICHROMATE	Cr2-O7.2Na	10588-01-9	10-20%
BORIC ACID	B-H3-O3	10043-35-3	40-50%
SALT(S)	Not Available	Not Available	Not Available

### 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Full-face Class P3 (Particulate) respirator where an inhalation risk exists. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
<b>Advice to Doctor</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Non flammable. May evolve toxic hexavalent chromium oxides when heated to decomposition. Oxidising agent - supports combustion. May evolve metal oxides when heated to decomposition.
<b>Fire and Explosion</b>	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. 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>	Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	2X

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Do not reuse spilt material.
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### 7. STORAGE AND HANDLING

<b>Storage</b>	Store in a cool, dry, well ventilated area, removed from combustible materials, reducing agents, active metals, sulphur, resins, plastics and foodstuffs. Contamination with incompatibles may cause fire or explosion. 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.

### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

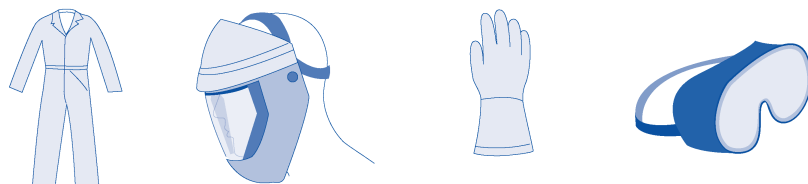
Exposure Stds	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Chromium (VI) compound, water soluble	ASCC (AUS)	--	0.05	--	--
	COPPER (II) SULPHATE					
	ES-TWA: 1 mg/m3 (Copper dusts/ mists)					

**Biological Limits** No biological limit allocated.

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**Engineering Controls**      Avoid inhalation. In a laboratory situation use under a fume cupboard or other localised extraction ventilation equipment. Maintain dust levels below the recommended exposure standard.

**PPE**      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

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<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		

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to Avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to Avoid</b>	Oxidising agent. Incompatible with combustible materials, reducing agents (eg. amines), acids (eg. nitric acid), alkalis (eg. hydroxides), metals, heat and ignition sources.
<b>Decomposition</b>	May evolve toxic hexavalent chromium oxides when heated to decomposition. May evolve metal oxides when heated to decomposition.
<b>Hazardous Reactions</b>	Polymerization is not expected to occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Health Hazard Summary</b>	Highly toxic - corrosive. This product has the potential to cause serious adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Potential skin and respiratory sensitising agent. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<b>Eye</b>	Highly corrosive. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.
<b>Inhalation</b>	High chronic toxicity - corrosive. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, ulceration and perforation of the nasal septum. May cause sensitisation by inhalation. Chronic exposure may result in kidney, liver and lung damage. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).
<b>Skin</b>	Corrosive. Contact may result in irritation, redness, pain, rash, dermatitis, ulceration and burns. May cause sensitisation by skin contact. May be absorbed through skin with harmful effects.
<b>Ingestion</b>	Toxic - corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and ulceration. Chronic exposure may result in liver and kidney damage.
<b>Toxicity Data</b>	COPPER (II) SULPHATE (7758-98-7) LD50 (Ingestion): 300 mg/kg (rat) LDLo (Ingestion): 50 mg/kg (human) TDLo (Ingestion): 150 mg/kg (child) SODIUM DICHROMATE (10588-01-9) Health Surveillance: Required [NOHSC:1005(1994)] LD50 (Ingestion): 50 mg/kg (rat) LDLo (Skin): 335 mg/kg (guinea pig) BORIC ACID (10043-35-3) LCLo (Inhalation): 28 mg/m <sup>3</sup> /4 hours (rat) LD50 (Ingestion): 2660 mg/kg (rat)

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LD50 (Intravenous): 1240 mg/kg (mouse)  
LDLo (Ingestion): 200 mg/kg (woman)  
TDLo (Ingestion): 45 g/kg (90 days pregnant rat - reproductive effects)

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**12. ECOLOGICAL INFORMATION**

**Environment**      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**

**Waste Disposal**      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 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**



**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>Packing Group</b>	II	<b>Hazchem Code</b>	2X	<b>EPG</b>	6A5
<b>IATA</b>					
<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>Packing Group</b>	II				
<b>IMDG</b>					
<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>Packing Group</b>	II				

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**15. REGULATORY INFORMATION**

**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**

**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).

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**ABBREVIATIONS:**

ADB - Air-Dry Basis.  
BEI - Biological Exposure Indice(s)  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
CNS - Central Nervous System.  
EINECS - European INventory of Existing Commercial chemical Substances.  
IARC - International Agency for Research on Cancer.  
M - moles per litre, a unit of concentration.  
mg/m3 - Milligrams per cubic metre.  
NOS - Not Otherwise Specified.  
NTP - National Toxicology Program.  
OSHA - Occupational Safety and Health Administration.  
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm - Parts Per Million.  
RTECS - Registry of Toxic Effects of Chemical Substances.  
TWA/ES - Time Weighted Average or Exposure Standard.

**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.

**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.

**Report Status**

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

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 SDS, 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 SDS.

**Prepared By**

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**End of Report**