

**Product Name**      **OSMOSE IMPRETECT C.S.**

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### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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**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)**          CCA SALT • COPPER CHROME ARSENATE (SALT) • COPPER CHROME ARSENATE - SALT • OSMOSE LIFEWOOD - IMPRETECT CS  
**Use(s)**                 TIMBER PRESERVATIVE  
**SDS Date**              04 Mar 2010

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### 2. HAZARDS IDENTIFICATION

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**CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA**

#### RISK PHRASES

R21                      Harmful in contact with skin.  
R25                      Toxic if swallowed.  
R26                      Very toxic by inhalation.  
R34                      Causes burns.  
R37/38                  Irritating to respiratory system and skin.  
R42/43                  May cause sensitisation by inhalation and skin contact.  
R45                      May cause cancer.  
R46                      May cause heritable genetic damage.  
R48/23                  Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
R49                      May cause cancer by inhalation.  
R60                      May impair fertility.  
R61                      May cause harm to the unborn child.  
R8                        Contact with combustible material may cause fire.

#### 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>	2922	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	6.1
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>EPG</b>	8C1

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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Ingredient	Formula	CAS No.	Content
SODIUM DICHROMATE	Cr2-O7.2Na	10588-01-9	20-40%
ARSENIC ACID	As-H3-O4	7778-39-4	10-20%
WATER	H2O	7732-18-5	30-50%
COPPER (II) SULPHATE PENTAHYDRATE	O4-S.Cu.5H2-O	7758-99-8	10-30%

### 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 Type B (Inorganic and acid gas) respirator or an Air-line respirator (in poorly ventilated areas). 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.
<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.
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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
	Copper (fume)	ASCC (AUS)	--	0.2	--	--
	Copper, dusts & mists (as Cu)	ASCC (AUS)	--	1	--	--
	Chromium (VI) compound, water soluble	ASCC (AUS)	--	0.05	--	--

ARSENIC ACID

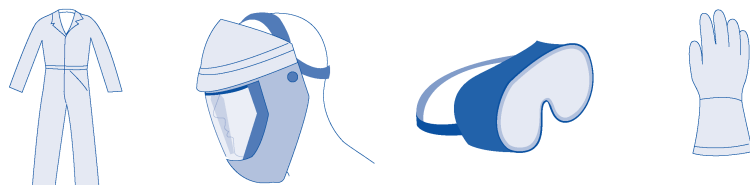
ES-TWA: 0.05 mg/m3 as Arsenic

**Biological Limits** No biological limit allocated.

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**Engineering Controls**      Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, use local or extraction ventilation at source.

**PPE**      Wear splash-proof goggles, rubber or PVC gloves, coveralls and a faceshield. When using large quantities or where heavy contamination is likely, wear: a PVC apron and rubber boots. Where an inhalation risk exists, wear: a Type B (Inorganic gases and vapours) or an Air-line respirator.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	ORANGE/BROWN LIQUID	<b>Solubility (Water)</b>	SOLUBLE
<b>Odour</b>	ODOURLESS	<b>Specific Gravity</b>	1.37
<b>pH</b>	< 1	<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>	> 100°C	<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>	Incompatible with combustible materials (violently), reducing agents (eg. amines), metals and some plastics and resins.
<b>Decomposition</b>	May evolve toxic hexavalent chromium 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>	Toxic - 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. Due to product form, an inhalation hazard is not anticipated with normal use.
<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>	Highly 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>	SODIUM DICHROMATE (10588-01-9) Health Surveillance: Required [NOHSC:1005(1994)] LD50 (Ingestion): 50 mg/kg (rat) LDLo (Skin): 335 mg/kg (guinea pig) ARSENIC ACID (7778-39-4) Health Surveillance: Required [NOHSC:1005(1994)] LD50 (Ingestion): 48 mg/kg (rat) LDLo (Ingestion): 5 mg/kg (rabbit) COPPER (II) SULPHATE PENTAHYDRATE (7758-99-8) LD50 (Ingestion): 300 mg/kg (rat) LD50 (Intraperitoneal): 33 mg/kg (mouse) LD50 (Skin): > 2000 mg/kg (rat) LDLo (Ingestion): 50 mg/kg (human) LDLo (Subcutaneous): 62 mg/kg (guinea pig)

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TDL<sub>o</sub> (Ingestion): 150 mg/kg (child-kidney/blood)

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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**      Soluble salts: convert to insoluble form by dissolving in water and precipitating with lime or sodium carbonate. Absorb with sand or similar and dispose of to an approved landfill site. Insoluble salts: dispose of to an 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>	CORROSIVE LIQUID, TOXIC, N.O.S.			
<b>UN No.</b>	2922	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b> 6.1
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>EPG</b> 8C1

#### IATA

<b>Shipping Name</b>	CORROSIVE LIQUID, TOXIC, N.O.S.			
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#### IMDG

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<b>Packing Group</b>	III			

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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).

**ABBREVIATIONS:**

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

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

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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/m<sup>3</sup> - 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.

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**SDS Date:** 04 Mar 2010

**End of Report**