

PRODUCT NAME OSMOSE IMPRETECT C.S.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name OSMOSE (AUSTRALIA) PTY LTD
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Synonym(s) COPPER CHROME ARSENATE - SALT • CCA SALT • OSMOSE LIFEWOOD - IMPRETECT CS • COPPER CHROME ARSENATE (SALT)
Use(s) TIMBER PRESERVATIVE
MSDS Date 23 March 2006

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.
 R46 May cause heritable genetic damage.
 R49 May cause cancer by inhalation.
 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

UN No.	2922	DG Class	8	Subsidiary Risk(s)	6.1
Pkg Group	III	Hazchem Code	2X	EPG	8C1

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

Eye	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.
Inhalation	Leave area of exposure immediately. If symptoms occur, seek urgent medical attention. If assisting a victim avoid becoming a casualty, wear a Full-face Type B (Inorganic and acid gas) respirator or Air-line respirator (in poorly ventilated areas). If victim is not breathing apply artificial respiration.
Skin	Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.
Advice to Doctor	Treat symptomatically

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic hexavalent chromium oxides when heated to decomposition.
Fire and Explosion	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.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVC/rubber gloves, a Type B (Inorganic and acid gas) respirator (or Air-line respirator in confined areas), coveralls, an apron and boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal.
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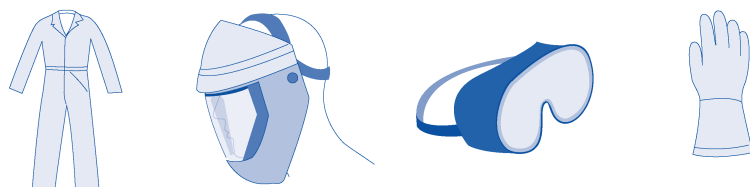
7. STORAGE AND HANDLING

Storage	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.
Handling	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 Standards	ARSENIC ACID (7778-39-4) ES-TWA: 0.05 mg/m ³ as Arsenic COPPER (II) SULPHATE PENTAHYDRATE (7758-99-8) ES-TWA: 1 mg/m ³ as copper dusts/ mists or 0.2 mg/m ³ as copper fume SODIUM DICHROMATE (10588-01-9) ES-TWA: 0.05 mg/m ³ Chromium (VI) compound, water soluble
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use with 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) Respirator and an Air-line respirator.

PRODUCT NAME OSMOSE IMPRETECT C.S.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	ORANGE/BROWN LIQUID	Solubility (water)	SOLUBLE
Odour	ODOURLESS	Specific Gravity	1.37
pH	< 1	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	> 100°C	Upper Explosion Limit	NOT RELEVANT
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with combustible materials (violently eg. solvents), reducing agents, active metals (eg. lithium, aluminium), sulphur and some plastics and resins.

Decomposition May evolve toxic hexavalent chromium oxides when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary 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).

Eye Highly corrosive - severe irritant. Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.

Inhalation Toxic - corrosive. Due to product form (liquid) and low vapour pressure of chromates, inhalation is unlikely unless sprayed. Over exposure may result in upper respiratory & mucous membrane irritation, ulceration & perforation of the nasal septum. Respiratory sensitiser.

Skin Corrosive - irritant. Prolonged contact may result in skin rash, dermatitis, ulceration and burns. Sensitising agent. Toxic effects may result through absorption.

Ingestion Highly 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.

Toxicity Data
SODIUM DICHROMATE (10588-01-9)
Health Surveillance: Required [NOHSC:1005(1994)]
LD50 (Ingestion): 50 mg/kg (rat)
ARSENIC ACID (7778-39-4)
Health Surveillance: Required [NOHSC:1005(1994)]
LD50 (Ingestion): 48 mg/kg (rat)
COPPER (II) SULPHATE PENTAHYDRATE (7758-99-8)
LD50 (Ingestion): 300 mg/kg (rat)
LD50 (Skin): > 2000 mg/kg (rat)

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.

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.

14. TRANSPORT INFORMATION



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

Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S.		
UN No.	2922	DG Class	8
Pkg Group	III	Hazchem Code	2X
		Subsidiary Risk(s)	6.1
		EPG	8C1

IATA

Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S.		
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IMDG

Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S.		
UN No.	2922	DG Class	8
Pkg Group	III		
		Subsidiary Risk(s)	6.1

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product 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).

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.

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/m³ - 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.

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

PRODUCT NAME OSMOSE IMPRETECT C.S.

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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End of Report