Osmose
Preservation Technology at Work

Material Safety Data Sheet

PRODUCT NAME **OSMOSE LIFEWOOD - SARMIX OXCELL**

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	
Web Site	http://www.osmose.com.au
Synonym(s)	5/01, OSMOSE LIFEWOOD SARMIX OXCELL (CCA OXIDE), OSMOSE LIFEWOOD - SARMIX OXCELL (CCA OXIDE) (FORMERLY), CCA OXIDE, COPPER CHROME ARSENATE - OXIDE
Use(s)	CONCENTRATE, INDUSTRIAL APPLICATIONS, TIMBER PRESERVATIVE

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R25 Toxic if swallowed.
R35 Causes severe burns.
R43 May cause sensitisation by skin contact.
R49 May cause cancer by inhalation.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R8 Contact with combustible material may cause fire.

SAFETY PHRASES

S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre 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	**Hazchem Code**	2X	**Pkg Group**	III
DG Class	8	**Subsidiary Risk(s)**	6.1	**EPG**	8C1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ARSENIC ACID	As-H3-O4	30-60%	7778-39-4
CHROMIUM (VI) OXIDE	Cr-O3	30-60%	1333-82-0
COPPER (II) OXIDE	CuO	10-30%	1317-38-0
WATER	H2O	10-30%	7732-18-5

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 DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.

Advice to Doctor Treat symptomatically

First Aid Facilities Eye wash facilities should be available.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve flammable hydrogen gas upon contact with metals. May ignite upon contact with acetic acid, alcohols, other organics & other oxidisable material.

Fire and Explosion Non flammable. Evacuate area and contact emergency services. 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 butyl/rubber/nitrile gloves, a Type B (Inorganic or acid gas) respirator and coveralls. Ventilate & clear area of all unprotected personnel. Absorb with vermiculite or similar - not combustible or organic materials. Collect & place in sealable containers. Do not replace spilt materials in original containers.

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 (eg. if container is damaged).

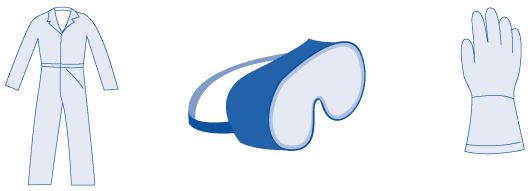
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.Maintain dust levels below the recommended exposure standard.

Exposure Standards

ARSENIC ACID (7778-39-4)
ES-TWA: 0.05 mg/m3 as Arsenic
CHROMIUM (VI) OXIDE (1333-82-0)
ES-TWA: 0.05 mg/m3 (Chromium VI compounds)
COPPER (II) OXIDE (1317-38-0)
ES-TWA: 1 mg/m3 (copper-dusts/ mists)

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



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	BLACK/BROWN LIQUID	**Solubility (water):**	SOLUBLE
Odour:	SLIGHT ODOUR	**Specific Gravity:**	1.85
pH:	NOT AVAILABLE	**% Volatiles:**	NOT AVAILABLE
Vapour Pressure:	NOT AVAILABLE	**Flammability:**	COMBUSTIBLE
Vapour Density:	NOT AVAILABLE	**Flash Point:**	NOT AVAILABLE
Boiling Point:	> 100 C	**Upper Explosion Limit:**	NOT AVAILABLE
Melting Point:	< 0 C	**Lower Explosion Limit:**	NOT AVAILABLE
Evaporation Rate:	NOT AVAILABLE	**Autoignition Temperature:**	NOT AVAILABLE
Exposure Standard:	0.05 mg/m3 Chromium (VI) oxide		

10. STABILITY AND REACTIVITY

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

Decomposition Products May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary 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 Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.

Inhalation Over exposure may result in mucous membrane and upper respiratory tract irritation, burning sensation, nausea and dizziness. At high levels staggering, fatigue, breathing difficulties, respiratory tract ulceration, pulmonary oedema and convulsions at very high levels. Chromium (VI) compounds are classified as carcinogenic to humans (IARC Group 1).

Skin Contact may result in rash, dermatitis, blistering (chrome sores), severe burns and discolouration. Effects may be delayed. Potential sensitising agent.

Ingestion Ingestion may result in gastrointestinal irritation, nausea, vomiting and abdominal pain. Large doses; gastrointestinal tract ulceration, fatigue, drowsiness and unconsciousness.

Toxicity Data

ARSENIC ACID (7778-39-4)
Health Surveillance: Required [NOHSC:1005(1994)]
LD50 (Ingestion): 48 mg/kg (rat)

CHROMIUM (VI) OXIDE (1333-82-0)
Health Surveillance: Required [NOHSC:1005(1994)]
LD50 (Ingestion): 80 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Wearing protective equipment including respiratory protection, neutralise with soda ash (sodium carbonate) or similar, decant and neutralise with 6M hydrochloric acid - dilute with excess water and flush to sewer or absorb with non organic absorbent (ie. vermiculite or clay) and dispose of to landfill. For large quantities, contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

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

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

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

The CCA (copper, chrome arsenic) treatment protects against fungal and insect attacks.

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

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.

ABBREVIATIONS:
mg/m3 - Milligrams per cubic metre
ppm - Parts Per Million
TWA/ES - Time Weighted Average or Exposure Standard.
CNS - Central Nervous System
NOS - Not Otherwise Specified
pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
M - moles per litre, a unit of concentration.
IARC - International Agency for Research on Cancer.

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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End of Report