

Product Name **OSMOSE SARMIX OXCELL C-680 FOR TIMBER TREATMENT**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **OSMOSE (AUSTRALIA) PTY LTD**
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Synonym(s) 5/01 • CCA OXIDE • COPPER CHROME ARSENATE (OXIDE) • COPPER CHROME ARSENATE - OXIDE • OSMOSE LIFEWOOD - SARMIX OXCELL • OSMOSE LIFEWOOD - SARMIX OXCELL (CCA OXIDE) • OSMOSE LIFEWOOD SARMIX OXCELL (CCA OXIDE)

Use(s) CONCENTRATE • INDUSTRIAL APPLICATIONS • TIMBER PRESERVATIVE

MSDS Date 05 Feb 2009

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC 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 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
Packing Group	III	Hazchem Code	2X	EPG	8C1

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Eye	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.
Inhalation	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. Apply artificial respiration if not breathing.
Skin	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.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
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 in contact with some metals. May ignite in contact with acetic acid, alcohols, other organics & other oxidisable material.
Fire and Explosion	Treat as per requirements for Surrounding Fires: 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	Prevent contamination of drains or waterways.
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURES

Spillage	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 return spilt material to original container.
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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 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	--	--

ARSENIC ACID

ES-TWA: 0.05 mg/m3 as Arsenic

CHROMIUM (VI) OXIDE

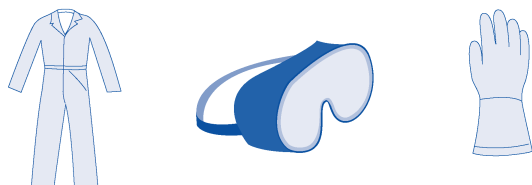
ES-TWA: 0.05 mg/m3 (Chromium VI compounds)

Biological Limits No biological limit allocated.

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Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

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



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	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	> 100°C	Upper Explosion Limit	NOT RELEVANT
Melting Point	< 0°C	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE		

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with combustible materials (violently), reducing agents (eg. amines), metals and some plastics and resins.

Hazardous Decomposition Products May evolve toxic gases if 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 irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.

Inhalation Corrosive. Over exposure may result in irritation of the nose and throat, coughing, burning sensation, nausea and dizziness. High level exposure may result in staggering, fatigue, breathing difficulties, pulmonary oedema and convulsions. Chromium (VI) compounds are classified as carcinogenic to humans (IARC Group 1).

Skin Corrosive - severe irritant. Contact may result in irritation, redness, rash, dermatitis, blistering and severe burns. May cause discolouration of the skin. Potential sensitising agent. Effects may be delayed.

Ingestion Toxic - corrosive. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in 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)
LDLo (Ingestion): 5 mg/kg (rabbit)
CHROMIUM (VI) OXIDE (1333-82-0)
Health Surveillance: Required [NOHSC:1005(1994)]
LD50 (Ingestion): 80 mg/kg (rat)
LD50 (Intraperitoneal): 14 mg/kg (mouse)
LD50 (Intravenous): 9260 ug/kg (rat)
LDLo (Skin): 55 mg/kg (rat)
LDLo (Subcutaneous): 20 mg/kg (mouse)
TCLo (Inhalation): 110 ug/m3 (human)
TDLo (Intravenous): 5 mg/kg (hamster)
TDLo (Subcutaneous): 20 mg/kg (mouse)

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



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	Subsidiary Risk(s)	6.1
Packing Group	III	Hazchem Code	2X	EPG	8C1

IATA

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

IMDG

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

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:

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.

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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 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