

PRODUCT NAME OSMOSE ACQ TYPE D FOR TIMBER TREATMENT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name OSMOSE (AUSTRALIA) PTY LTD
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Synonym(s)

Use(s) TIMBER PRESERVATIVE

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES

S2 Keep out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ETHANOLAMINE	C2-H7-N-O	25-35%	141-43-5
DIDECYL DIMETHYL AMMONIUM CHLORIDE	C22-H48-N.Cl	4-8%	7173-51-5
WATER	H2O	45-55%	7732-18-5
COPPER (II) CARBONATE HYDROXIDE	C-O3.H2-O2.2Cu	10-20%	12069-69-1

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 other than minor symptoms occur, seek immediate medical attention. If assisting a victim avoid becoming a casualty, wear a Type A (Organic vapour) respirator. 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.
DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical

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Ingestion	attention.
Advice to Doctor	Treat symptomatically
First Aid Facilities	Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) when heated to decomposition.
Fire and Explosion	Non flammable. Evacuate area and contact emergency services. Toxic gases (carbon/ nitrogen oxides, hydrocarbons, ammonia, amines) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spillage measures) 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	2XE

6. ACCIDENTAL RELEASE MEASURES

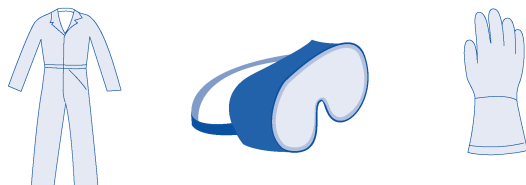
Spillage	If spill (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVC/rubber gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls, PVC apron and rubber boots. Ventilate and clear area of all unprotected personnel. Absorb spill with 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 oxidising agents, acids, nitrites - nitrosating agents and foodstuffs. Ensure containers 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

Ventilation	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.
Exposure Standards	ETHANOLAMINE (141-43-5) ES-STEL : 6 ppm (15 mg/m ³) ES-TWA: 3 ppm (8 mg/m ³) WES-TWA: 3 ppm (7.5 mg/m ³) COPPER (II) CARBONATE HYDROXIDE (12069-69-1) ES-TWA: 1 mg/m ³ - copper mists/dusts
PPE	Wear splash-proof goggles, coveralls and rubber or PVC gloves. Where an inhalation risk exists, wear an Air-line respirator and a Type A (Organic vapour) Respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	VISCOUS CLEAR BLUE LIQUID	Solubility (water)	SOLUBLE
Odour	SLIGHT ODOUR	Specific Gravity	1.18 to 1.22
pH	10 to 11	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Melting Point	NOT AVAILABLE	Upper Explosion Limit	NOT RELEVANT

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Boiling Point	NOT AVAILABLE	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity	May react with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid) and nitrites (possibly forming carcinogenic nitrosamines).
Decomposition Products	May evolve toxic gases (carbon/ nitrogen oxides, hydrocarbons, amines, ammonia) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Slightly corrosive. This product has the potential to cause acute and chronic health effects with over exposure. Use safe work practices to avoid eye and skin contact and vapour inhalation. Over exposure at high levels may result in corrosive tissue damage. Potential skin and respiratory sensitiser.
Eye	Slightly corrosive. Exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.
Inhalation	Slightly corrosive. Over exposure may result in mucous membrane and upper respiratory tract irritation. May cause sensitisation with asthma-like symptoms. At high levels; breathing difficulties, ulceration of respiratory tract, pulmonary oedema and convulsions.
Skin	Slightly corrosive. Contact may result in irritation, skin rash, dermatitis, sensitisation and burns. Toxic effects may result through skin absorption.
Ingestion	Slightly corrosive. Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea.
Toxicity Data	ETHANOLAMINE (141-43-5) LD50 (Ingestion): 620 mg/kg (guinea pig) LD50 (Skin): 1 mL/kg (rabbit) DIDECYL DIMETHYL AMMONIUM CHLORIDE (7173-51-5) LD50 (Ingestion): 84 mg/kg (rat) COPPER (II) CARBONATE HYDROXIDE (12069-69-1) LD50 (Ingestion): 159 mg/mg (rabbit)

12. ECOLOGICAL INFORMATION

Environment	If released to the atmosphere ethanolamine is expected to exist almost entirely in the vapour phase. Expected to be removed by reaction with photochemically generated hydroxyl radicals and precipitation. If spilt on soil may leach into groundwater. Expected to biodegrade fairly rapidly following acclimation. Bioconcentration is not expected to be important fate processes.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.
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
Pkg Group	II	Hazchem Code	2XE	EPG	8C1
IATA					
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IMDG

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

UN No. 2922

DG Class 8

Subsidiary Risk(s) 6.1

Pkg Group II

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 EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

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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MSDS Date: 16 March 2007

End of Report