

PRODUCT NAME OSMOSE NATUREWOOD ACQ PRESERVATIVE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name OSMOSE (AUSTRALIA) PTY LTD
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Synonym(s) OSMOSE NATUREWOOD - ACQ TIMBER PRESERVATIVE (FORMERLY), ACQ PRESERVATIVE NATUREWOOD
Use(s) TIMBER PRESERVATIVE

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R23 Toxic by inhalation.
 R34 Causes burns.
 R36/38 Irritating to eyes and skin.
 R50 Very toxic to aquatic organisms.

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.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.
 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 2XE	Pkg Group II
DG Class 8	Subsidiary Risk(s) 6.1	EPG 8C1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
AMMONIA	N-H3	<10%	7664-41-7
DIDECYL DIMETHYL AMMONIUM CHLORIDE	C22-H48-N.Cl	<10%	7173-51-5
ETHANOL	C2-H6-O	<10%	64-17-5
CARBONIC ACID, COPPER SALT	C-O3.Cu	<10%	1184-64-1
WATER	H2O	remainder	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	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
Skin	Gently flush affected areas with water. Seek medical attention if irritation develops.
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 and safety shower should be available.

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. No fire or explosion hazard exists.
Fire and Explosion	Non flammable. No fire or explosion hazard exists.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	2XE

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), contact emergency personal if appropriate. Wear splash-proof goggles, PVC/rubber gloves, coveralls and boots. Where an inhalation risk exists, wear a Type K (Ammonia) respirator. Prevent spill entering drains or waterways. Absorb spill with sand or similar and place in sealable containers for disposal. Potentially toxic to aquatic life. Caution: slippery when wet.
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7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, removed from direct sunlight, oxidising agents (eg. hypochlorites), acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
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	Use with adequate natural ventilation. Where vapour or mist generation is possible, mechanical extraction ventilation is recommended.
Exposure Standards	AMMONIA (7664-41-7) ES-STEL : 35 ppm (24 mg/m3) ES-TWA: 25 ppm (17 mg/m3) WES-TWA: 25 ppm (17 mg/m3) ETHANOL (64-17-5) ES-TWA: 1000 ppm (1880 mg/m3) WES-TWA: 1000 ppm (1880 mg/m3)
PPE	Wear splash-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Type K (Ammonia) Respirator. When using large quantities or where heavy contamination is likely, wear coveralls.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	VISCOUS CLEAR BLUE LIQUID	Solubility (water):	SOLUBLE
Odour:	AMMONIA ODOUR	Specific Gravity:	1.16
pH:	9.5	% Volatiles:	NOT AVAILABLE
Vapour Pressure:	NOT AVAILABLE	Flammability:	NON FLAMMABLE
Vapour Density:	NOT AVAILABLE	Flash Point:	NOT RELEVANT
Boiling Point:	101 C	Upper Explosion Limit:	NOT RELEVANT
Melting Point:	NOT AVAILABLE	Lower Explosion Limit:	NOT RELEVANT
Evaporation Rate:	NOT AVAILABLE	Autoignition Temperature:	NOT AVAILABLE
Exposure Standard:	25 ppm Ammonia		

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidising agents (eg. peroxides) and acids (eg. hydrochloric acid).
Decomposition Products	May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Use safe work practices to avoid direct eye or skin contact and vapour or spray mist inhalation. Ammonia vapour may cause severe eye and respiratory tract irritation, however due to the low content, such effects are only anticipated in poorly ventilated areas.
Eye	Contact may result in lacrimation, pain, redness and conjunctivitis, with possible burns.
Inhalation	Over exposure at high levels may result in irritation of the nose and throat, coughing, nausea and headache.
Skin	Contact may result in irritation, itching, redness and skin rash. The manufacturer reports that the dermal LD50 (rat) is > 2000 mg/kg.
Ingestion	Ingestion may result in ulceration to the mouth and throat with nausea and vomiting. The manufacturer reports that the oral LD50 (rat) 659 mg/kg.
Toxicity Data	AMMONIA (7664-41-7) LC50 (Inhalation): 2000 ppm/4 hours (rat) LD50 (Ingestion): 350 mg/kg (rat) DIDECYL DIMETHYL AMMONIUM CHLORIDE (7173-51-5) LD50 (Ingestion): 84 mg/kg (rat) ETHANOL (64-17-5) LC50 (Inhalation): 2000 ppm/10 hours (rat) LD50 (Ingestion): 3450 mg/kg (mouse)

12. ECOLOGICAL INFORMATION

Environment	ATMOSPHERE: Ammonia is readily returned to the soil by washout from rain. SOIL: Ammonia is strongly adsorbed to the soil. WATER: Rapidly converted to nitrates resulting in an increase in the pH of water and an oxygen demand (BOD) several days after the introduction of ammonia. Highly toxic to fish - levels of 1 ppm in water may be fatal to some species.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	SOLUTIONS: Cover with sodium carbonate (soda ash), add to water and neutralise with dilute acid (eg. 6M HCl or similar). SOLIDS: Collect and dissolve with water. Add sodium carbonate, mix and treat as above. Absorb with soil and 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

Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S.				
UN No.	2922	Hazchem Code	2XE	Pkg Group	II
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

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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End of Report