

PRODUCT NAME OSMOSE PROTIM SOLIGNUM TIMBER PROTECTIVE EMULSION CN

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Synonym(s) COPPER NAPHTHENATE EMULSION • CN EMULSION • TIMBER PRESERVATIVE • OSMOSE PROTIM TIMBERCARE CN EMULSION • PROTIM TIMBERCARE CN EMULSION

Use(s) TIMBER PRESERVATIVE

MSDS Date 23 March 2006

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R22 Harmful if swallowed.

SAFETY PHRASES

S2 Keep out of reach of children.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
COPPER NAPHTHENATE	Not Available	1338-02-9	10-30%
AMMONIUM HYDROXIDE	NH4-OH	1336-21-6	<1%
PARAFFIN OIL	Not Available	8012-95-1	30-60%
WATER	H2O	7732-18-5	10-30%
CASEINS	Not Available	9000-71-9	<1%

4. FIRST AID MEASURES

Eye	Flush gently with running water for 15 minutes.
Inhalation	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
Skin	Remove contaminated clothing and wash before re-use or discard. Wash affected area gently with soap and water. If irritation develops and persists, seek medical attention.
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

5. FIRE FIGHTING MEASURES

Flammability	Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
Fire and Explosion	Combustible. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon 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	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
Hazchem Code	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (bulk), clear area of all unprotected personnel and ventilate area. Wear splash-proof goggles, nitrile/viton gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists), coveralls and boots. Absorb residues with sand or similar and place in clean containers for disposal.
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7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, direct sunlight, heat or ignition sources, foodstuffs, out of direct sunlight and out of the reach of children. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate fire protection.
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	Ingredient	Reference	TWA		STEL	
			ppm	mg/m3	ppm	mg/m3
	Oil mist, refined mineral	NOHSC (AUS)	--	5	--	--

Biological Limit Values No biological limit allocated.

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

PPE Wear splash-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. With prolonged use, wear nitrile or viton (R) gloves and coveralls.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	LIGHT GREEN PASTE OR GEL	Solubility (water)	SOLUBLE
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Odour	SLIGHT AMMONIA AND HYDROCARBON ODOUR	Specific Gravity	0.95
pH	7.5 - 8.5 (1% solution)	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	COMBUSTIBLE
Vapour Density	NOT AVAILABLE	Flash Point	180°C (cc)
Boiling Point	NOT AVAILABLE	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE	Autoignition Temperature	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), alkalis (eg. hydroxides), heat and ignition sources.

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low to moderate toxicity. Avoid eye contact, prolonged & repeated skin contact & vapour or mist inhalation. The mineral oil contained within this product is solvent refined and therefore occupational cancers associated with chronic exposure to less refined mineral oils are not anticipated. Solvent or highly refined mineral oils are not classifiable as to their carcinogenicity (IARC Group 3).

Eye Low to moderate irritant. Exposure may result in irritation, pain and redness.

Inhalation Low irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.

Skin Low irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

Ingestion Low to moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, and drowsiness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Toxicity Data
COPPER NAPHTHENATE (1338-02-9)
LD50 (Ingestion): 1897 mg/kg (mouse)
AMMONIUM HYDROXIDE (1336-21-6)
LD50 (Ingestion): 350 mg/kg (rat)
PARAFFIN OIL (8012-95-1)
LD50 (Ingestion): 22 g/kg (mouse)

12. ECOLOGICAL INFORMATION

Environment Mineral oils biodegrade slowly and should not be released to waterways or soil. They can float on water, restricting oxygen exchange with possible asphyxiation of aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Reuse where possible or return to manufacturer/supplier. May be recycled. Do not release to drains or waterways. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name	None Allocated				
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Pkg Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 5 (S5) Poison 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

MINERAL OILS - SOLVENT REFINED; Animal experiments and human experience have not shown cancer risks when handling solvent refined mineral oils, unlike non refined mineral oils. CLEANING MINERAL OIL CONTAMINATED CLOTHING; Cleaners are advised that when cleaning oil contaminated clothing it is essential that freshly distilled solvent is used for each batch, including final rinse, as even filtered solvent will leave oil residues.

MINERAL OILS - USED; Used mineral oils in engine crankcases and other high temperature/high stress environments may contain potentially harmful residues, some of which have been shown to cause irreversible skin effects, including cancer. Prolonged and repeated inhalation of mists associated with used mineral oils may result in pulmonary fibrosis.

MINERAL OILS - INJECTION; Where high pressure applications are used the risk of accidental injection under the skin exists and may result in an extremely painful and serious injury requiring immediate medical attention. Depending on the pressure used, mineral oils may be injected a considerable distance below the skin and may cause permanent tissue damage. SEEK IMMEDIATE MEDICAL ATTENTION. EXERCISE EXTREME CARE WHEN USING HIGH PRESSURE EQUIPMENT.

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 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