

PRODUCT NAME OSMOSE DETERMITE GLUE LINE INSECTICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name OSMOSE (AUSTRALIA) PTY LTD
Address Cafirco Road, Mount Gambier, SA, AUSTRALIA, 5290
Telephone (08) 8723 1399
Fax (08) 8732 0010
Emergency 1800 088 809
Email customerservices@osmose.com.au
Web Site http://www.osmose.com.au

Synonym(s) BIFENTHRIN 80SC
Use(s) CONCENTRATE • GLUE LINE INSECTICIDE • TIMBER PRESERVATIVE
MSDS Date 19 March 2007

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R20/22 Harmful by inhalation and if swallowed.

SAFETY PHRASES

S13 Keep away from food, drink and animal feeding stuffs.
 S2 Keep out of reach of children.
 S23 Do not breathe gas/fumes/vapour/spray (where applicable).

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
BIFENTHRIN	C23-H22-Cl-F3-O2	82657-04-3	8%
WATER	H2O	7732-18-5	>60%
ADDITIVES	Not Available	Not Available	5-20%

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.

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 For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.

Advice to Doctor Treat symptomatically

First Aid Facilities Eye wash facilities and safety shower are recommended.

PRODUCT NAME OSMOSE DETERMITE GLUE LINE INSECTICIDE

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.
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	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt (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.
-----------------	--

7. STORAGE AND HANDLING

Storage	Store in cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids, seeds, fertilizer, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems. Non corrosive-compatible with aluminium, HDPE, glass and phenolic-lined steel containers.
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	No exposure standard(s) allocated.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use in well ventilated areas.
PPE	Wear splash-proof goggles, rubber or PVC gloves and coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear an Air-line respirator or self Contained Breathing Apparatus (SCBA). If spraying, wear full-length rubber or full-length PVC gloves and full-face Type A-Class P3 (Organic gases/vapours and Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	BEIGE TO WHITE LIQUID	Solubility (water)	DISPERSIBLE
Odour	SLIGHT ODOUR	Specific Gravity	1.024
pH	NOT AVAILABLE	% Volatiles	> 60 % (Water)
Vapour Pressure	18 mmHg @ 20°C (Water)	Flammability	NON FLAMMABLE
Vapour Density	NOT AVAILABLE	Flash Point	NOT RELEVANT
Boiling Point	100°C (Approximately)	Upper Explosion Limit	NOT RELEVANT
Melting Point	< 0°C	Lower Explosion Limit	NOT RELEVANT
Evaporation Rate	AS FOR WATER	Autoignition Temperature	NOT AVAILABLE

PRODUCT NAME OSMOSE DETERMITE GLUE LINE INSECTICIDE

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with oxidising agents (eg. peroxides) and acids (eg. hydrochloric acid).
Decomposition May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Moderate toxicity - irritant. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. This product may be diluted with water before application, which will reduce toxicity. Do not allow contamination into drains and waterways. When handled in small quantities the potential for adverse health effects are reduced.

Eye Irritant. Exposure may result in lacrimation, irritation, pain and redness.

Inhalation Irritant. Over exposure may result in mucous membrane irritation of the nose and throat and coughing. At high levels; breathing difficulties.

Skin Irritant. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

Ingestion Moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.

Toxicity Data BIFENTHRIN (82657-04-3)
LC50 (Inhalation): 4.9 mg/l/4 hours (rat)
LD50 (Ingestion): 54.5 mg/kg (rat)
LD50 (Skin): 2 g/kg (rabbit)

12. ECOLOGICAL INFORMATION

Environment Hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site only. Contact the manufacturer for additional information if larger amounts are involved. Triple (or preferably pressure) rinse containers before disposal. Add risings to spray tank.

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

IATA

Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
UN No.	3082	DG Class	9	Subsidiary Risk(s)	None Allocated
Pkg Group	III				

IMDG

Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
UN No.	3082	DG Class	9	Subsidiary Risk(s)	None Allocated
Pkg Group	III				

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 6 (S6) 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

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.

Prepared By

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

MSDS Date: 19 March 2007

End of Report