

**PRODUCT NAME** **OSMOSE DETERMITE ULTRA LOW ODOUR TIMBER FRAMING INSECTICIDE**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

**Synonym(s)** BIFENTHRIN 100EC • EMULSIFIABLE TERMITICIDE CONCENTRATE • OSMOSE DETERMITE 100EC • DETERMITE 100EC • DETERMITE CONCENTRATE

**Use(s)** TIMBER INSECTICIDE SPRAY

**MSDS Date** 23 May 2007

### 2. HAZARDS IDENTIFICATION

#### CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

##### RISK PHRASES

R65 Harmful: May cause lung damage if swallowed.

##### SAFETY PHRASES

S23 Do not breathe gas/fumes/vapour/spray (where applicable).

S24 Avoid contact with skin.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC	Not Available	64742-94-5	>60%
BIFENTHRIN	C23-H22-Cl-F3-O2	82657-04-3	5-10%
ADDITIVES	Not Available	Not Available	10-30%

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#### **4. FIRST AID MEASURES**

<b>Eye</b>	Flush gently with running water for 15 minutes.
<b>Inhalation</b>	If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
<b>Skin</b>	Gently flush affected areas with water. Seek medical attention if irritation develops.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor.
<b>Advice to Doctor</b>	Treat symptomatically
<b>First Aid Facilities</b>	Eye wash facilities and safety shower are recommended.

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#### **5. FIRE FIGHTING MEASURES**

<b>Flammability</b>	Combustible. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
<b>Fire and Explosion</b>	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.
<b>Extinguishing</b>	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
<b>Hazchem Code</b>	None Allocated

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#### **6. ACCIDENTAL RELEASE MEASURES**

<b>Spillage</b>	If spilt (bulk), contact emergency services if appropriate. Wear splash-proof goggles, PVA/viton gloves, a Type A (Organic vapour) respirator (or an Air-line respirator in confined areas), coveralls and boots. Ventilate and clear area of all unprotected personnel. Eliminate all heat/ignition sources. Absorb spill with sand or similar, collect and place in sealable containers for disposal.
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#### **7. STORAGE AND HANDLING**

<b>Storage</b>	Store in cool, dry, well ventilated area, removed from fertilizers, moisture, seeds, acids, oxidising agents, alkalis, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Non corrosive- compatible with aluminium, HDPE, glass and phenolic-lined steel containers.
<b>Handling</b>	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.

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#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure Standards</b>	No exposure standard(s) allocated.
<b>Biological Limit Values</b>	No biological limit allocated.
<b>Engineering Controls</b>	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended.
<b>PPE</b>	Wear splash-proof goggles, viton (R) or PVA gloves and coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) Respirator and an Air-line respirator.



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#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	CLEAR AMBER LIQUID	<b>Solubility (water)</b>	EMULSIFIES
<b>Odour</b>	HYDROCARBON ODOUR	<b>Specific Gravity</b>	0.88 - 0.92
<b>pH</b>	6.5 - 7.5	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	CLASS C1 COMBUSTIBLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	> 80°C
<b>Boiling Point</b>	100°C (Approximately)	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	< 0°C	<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	AS FOR WATER	<b>Autoignition Temperature</b>	NOT AVAILABLE

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## 10. STABILITY AND REACTIVITY

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

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

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## 11. TOXICOLOGICAL INFORMATION

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**Health Hazard Summary** Moderate toxicity - irritant. Use safe work practices to avoid eye or skin contact and vapour generation - inhalation. Chronic exposure to organic solvents may cause liver, kidney and nerve damage. This product may be diluted with water before application, which will reduce toxicity. Do not allow contamination into drains and waterways.

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

**Inhalation** Irritant. Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.

**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 nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness, drowsiness and unconsciousness with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.

**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)

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## 12. ECOLOGICAL INFORMATION

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**Environment** Hazardous to the environment.

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## 13. DISPOSAL CONSIDERATIONS

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**Waste Disposal** Absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information. Do not dispose of in such a way that ground water, roots, turf or other desirable plants may become contaminated.

**Legislation** Dispose of in accordance with relevant local legislation.

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## 14. TRANSPORT INFORMATION

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**NOT 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

**PRODUCT NAME OSMOSE DETERMITE ULTRA LOW ODOUR TIMBER FRAMING INSECTICIDE**

**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

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**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).

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**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.

HERBICIDES: Herbicides are classed as selective when they are used to kill weeds without harming the crop and as non-selective when the purpose is to kill all vegetation. Herbicides can affect plants either by contact or translocation. Contact herbicides kill the plant parts to which the chemical is applied, while translocated herbicides are absorbed either by roots or above-ground parts of plants and then move within the plant system to distant tissues.

**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.

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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**