

# Safety Data Sheet

Product Name OSMOSE BORACOL 200 RH FUNGICIDE

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name OSMOSE (AUSTRALIA) PTY LTD

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Synonym(s) 200 RH BORACOL • BORACOL 200 RH • OSMOSE BORACOL 200 RH

Use(s) ALGAE CONTROL • FUNGICIDE • INSECTICIDE • PRESERVATIVE

SDS Date 04 Mar 2010

### 2. HAZARDS IDENTIFICATION

#### **CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC 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 AllocatedDG ClassNone AllocatedSubsidiary Risk(s)None AllocatedPacking GroupNone AllocatedHazchem CodeNone AllocatedEPGNone Allocated

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
ETHYLENE GLYCOL	C2-H6-O2	107-21-1	>60%
DISODIUM OCTABORATE TETRAHYDRATE	B8-Na2-O13.4H2O	12008-41-2	10-30%
WATER	H2O	7732-18-5	<30%
BENZALKONIUM CHLORIDE	Not Available	8001-54-5	1-10%

### 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-

line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing with water until advised to stop by the Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

Advice to Doctor Treat symptomatically

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#### 5. FIRE FIGHTING MEASURES

**Flammability** Combustible. May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated

to decomposition. Vapour may form explosive mixtures with air. Autoignition temperature: > 400°C.

Fire and **Explosion** 

**Extinguishing** 

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. 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.

Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways.

**Hazchem Code** None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

Spillage

Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Prevent spill entering drains or waterways.

## 7. STORAGE AND HANDLING

Store tightly sealed in a cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or Storage

ignition sources and foodstuffs. 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 be bunded and have

appropriate fire protection and ventilation systems.

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin Handling

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 Stds** 

Ingredient	Deference	TWA		STEL	
	Reference	ppm	mg/m3	ppm	mg/m3
Ethylene glycol (vapour)	ASCC (AUS)	20	52	40	104

Biological Limits No biological limit allocated.

**Engineering** Controls

**PPE** 

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

Wear splash-proof goggles and neoprene or butyl or rubber gloves. Where heavy skin contamination is likely, wear coveralls or protective clothing. Where an inhalation risk exists, wear a Type A (Organic vapour) respirator.





### 9. PHYSICAL AND CHEMICAL PROPERTIES

**CLEAR COLOURLESS LIQUID** Solubility (Water) **SOLUBLE** Appearance Odour SLIGHT ODOUR **Specific Gravity** 1.232

На % Volatiles **NOT AVAILABLE** 

Vapour Pressure **NOT AVAILABLE Flammability COMBUSTIBLE NOT AVAILABLE Flash Point** > 110°C

**Boiling Point** > 197°C **Upper Explosion Limit NOT AVAILABLE** 

**Melting Point NOT AVAILABLE Lower Explosion Limit** 3.2 %

**Evaporation Rate NOT AVAILABLE** 

**Autoignition Temperature** > 400°C

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Vapour Density

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## 10. STABILITY AND REACTIVITY

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat

and ignition sources. Further incompatibilities include; dimethyl terephthalate and titanium butoxide, perchloric acid (violently), mixtures with ammonium dichromate, sodium chlorite, silver chlorate and uranyl nitrate ignite when heated to 100°C. Aqueous solutions may ignite silvered copper wires which have an

applied D.C. voltage.

Decomposition May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to

decomposition.

#### 11. TOXICOLOGICAL INFORMATION

**Health Hazard** Summary

Moderate toxicity. Potential to cause acute and chronic health effects with over exposure. Use safe work practices to avoid eye or skin contact and vapour/mist generation - inhalation. The low vapour pressure of this product reduces the potential for an inhalation hazard. Chronic exposure to ethylene glycol may result in kidney and/or

Eye

Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result in burns with

central nervous system (CNS) damage. Potential sensitising agent.

prolonged contact.

Inhalation Low irritant. Over exposure to vapours may result in irritation of the nose and throat, coughing, nausea and

headache. Occupational exposure to quaternary ammonium compounds has been reported to cause asthma, although rare. Due to the low vapour pressure, an inhalation hazard is not anticipated with normal use.

Skin Irritant. Contact may result in irritation, redness, rash and dermatitis. May be absorbed through skin with harmful

effects. May cause sensitisation by skin contact.

Moderate toxicity. Ingestion may result in CNS depression with symptoms resembling drunkenness, Ingestion

gastrointestinal effects, nausea, vomiting. Chronic exposure or large doses may result in circulatory and

respiratory collapse, liver and kidney damage, unconsciousness and convulsions.

**Toxicity Data** ETHYLENE GLYCOL (107-21-1)

LC50 (Inhalation): 10 876 mg/kg (rat) LD50 (Ingestion): 1650 mg/kg (cat) LD50 (Skin): 9530 ug/kg (rabbit) LDLo (Ingestion): 398 mg/kg (human)

TCLo (Inhalation): 10,000 mg/m3 (human - cough) TDLo (Ingestion): 5500 mg/kg (child - anaesthesia)

DISODIUM OCTABORATE TETRAHYDRATE (12008-41-2)

LD50 (Ingestion): 2 g/kg (rat)

BENZALKONIUM CHLORIDE (8001-54-5) LD50 (Ingestion): 240 mg/kg (rat) LD50 (Intraperitoneal): 14.5 mg/kg (rat) LD50 (Intravenous): 13.9 mg/kg (rat) LD50 (Subcutaneous): 64 mg/kg (mouse)

TDLo (Ingestion): 266 mg/kg (woman; oesophogas changes, diarrhoea)

## 12. ECOLOGICAL INFORMATION

**Environment** 

Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 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.

Dispose of in accordance with relevant local legislation. Legislation

## 14. TRANSPORT INFORMATION

## 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 **Hazchem Code** None Allocated None Allocated **Packing Group FPG** None Allocated

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CHEM ALERT

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### 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

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:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

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.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

#### **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.

#### 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.

## Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

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 SDS, 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 SDS.

## **Prepared By**

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