

MSDS:1

Issue date: 8 November, 2010

1. IDENTIFICATION

Product Name: OrganiBOR
Other Names: -
Chemical Family: Hydroboracite
Molecular Formula: CaO MgO 3B₂O₃ 6H₂O
Recommended Use: Slow release fertiliser
Supplier: Omnia Specialities Australia Pty Ltd
Address: Tramway Road
Morwell BC 3841
Victoria
Telephone: +61 3 5133 9118
Emergency phone: **Telephone:** +61 3 51330111 **Mobile:** +61 408 375135
All other inquiries: rmommers@omnia.net.au

2. HAZARDS IDENTIFICATION

Hazard Classification: Classified as **hazardous** according to the criteria of NOHSC/ASCC
Hazard criteria: Reproductive Category 2, Toxic

Risk Phrases:

R60 May impair fertility
R61 May cause harm to the unborn child

Safety Phrases:

S43 In case of accident or if you feel unwell, seek medical advice immediately
(show label where possible)
S53 Avoid exposure – obtain special instructions before use

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%w/w)
Boric oxide (B ₂ O ₃)	1303-86-2	30 - 35
Calcium oxide	1305-78-8	10 - 15
Magnesium oxide	1309-48-4	< 10
Other ingredients including water	various	20 -30

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone Australia: 0800 131126) or a doctor. If medical advice is needed: Have product container or label at hand.

Swallowed

If swallowed, do not induce vomiting. Give a glass of water if person is conscious. Obtain medical attention.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation occurs get medical attention.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately if symptoms of nose or throat irritation. Begin artificial respiration if breathing has stopped. Get medical attention.

First Aid facilities: Provide eye baths/safety showers close to areas where contamination may occur.

Advice to doctor: Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media : Any fire extinguishing media may be used. Note boron is a fire retardant.

Hazards from combustion products: Not available

Precautions for fire fighters and special protective equipment: Do not breathe dust or smoke. Wear self-contained breathing equipment.

Hazchem Code: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Prevent from entering into drains and waterways.

Methods and materials for containment: Contain spillage. Wear personal protective equipment to prevent inhalation of dust at levels that may exceed permissible exposure limits. Recover into labelled containers for re-use or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Read product label before use. Use of gloves and eye protection should not be necessary for normal use conditions, however protection is advisable if area is excessively dusty. Minimize dust accumulation. Avoid breathing dust.

Conditions for safe storage: Store in cool dry place. Avoid getting wet.

Incompatible materials: No information available.

8. EXPOSURE CONTROLS : PERSONAL PROTECTION

Health Exposure Standards:

Australian Safety and Compensation (ASCC) Exposure Standards for components in this substance:

	TWA	STEL
Boric oxide	10 mg/m ³	-
Calcium oxide	2 mg/m ³	-
Magnesium oxide (fume)	10 mg/m ³	-

Biological limit values: None established

Engineering Controls:

Ventilation: No specific recommendations. Ensure air concentrations do not exceed Health Exposure Limit.

Personal Protective Equipment:

Respiratory Protection: No specific protection for normal use conditions. Avoid breathing dust. Use local exhaust ventilation if necessary to keep below exposure limit.

Eye Protection: Not required for normal use conditions. Dust will be abrasive to eyes and if exposure to dust is possible use eye goggles.

Skin/ Body Protection: Not required for normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical value
Appearance	Solid white greyish granular powder
Odour	Nil
Boiling Point/Range (°C)	Not applicable
Melting point (°C)	900 °C
Flash Point (°C)	Not applicable; non flammable solid
Specific weight g/cc @ 20 °C	2.17
Vapour Pressure mm Hg @ 20°C	Not applicable
Vapour Density kPa @ 20°C	Not applicable
Autoignition Temperature (°C)	Not applicable
Explosive Limits in Air %	Not applicable
Viscosity cSt	Not applicable
Volatiles	Not applicable
Solubility in Water	Low solubility
Particle size	< 1mm (9%), 2 – 4 mm (90%), > 4mm (1%)
Hardness (mohs)	2

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions and use. Will lose water of composition as temperature increases, i.e. at > 100 °C.

Conditions to avoid: Contact with strong reducing agents.

Hazardous decomposition products: No information available.

Hazardous reactions: Reacts with strong reducing agents, e.g. metal hydrides or alkali metals, to generate hydrogen gas which may create explosive hazard.

11. TOXICOLOGICAL INFORMATION**Acute Effects**

Ingestion: May cause gastrointestinal disturbances, nausea, vomiting, diarrhoea.

Eye Contact : Abrasive effects of dust may cause redness and blurred vision.

Skin Contact: May cause skin irritation with prolonged or repeated contact.

Inhalation: Dust may irritate upper respiratory tract (nose, throat).

Chronic Effects: Boron compounds are identified as possible reproductive and developmental

toxicants.

Other Health Effects Information: Not applicable

Toxicological Information: Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Not classified although contains calcium oxide which is slightly harmful in aquatic environment.

Persistence/degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of empty packaging to landfill or by burning in accordance with local regulations. Dispose of small quantities of product and other contaminated material to landfill. Consult State Land Waste Management Authority for any special requirements.

Special Precautions for Landfill or Incineration: No information available.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	Not regulated	UN No.	Not regulated	UN No.	Not regulated
Proper Shipping Name		Proper Shipping Name		Proper Shipping Name	
DG Class		DG Class		DG Class	
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group		Pack Group		Pack Group	
Hazchem		Hazchem			

Dangerous Goods Segregation

This product is not classified as Dangerous Goods for transport according to the Australian Dangerous Goods Code.

15. REGULATORY INFORMATION

Country/ Region: New Zealand

ERMA New Zealand Approval Code: HSR002571; Fertilizer (Subsidiary Hazard) Group Standard 2006

HSNO Controls: Codes T1, T2, T4, T7, I1, I9, I16, I21, I28, P1, P3, P13, D4, D6, D7, D8, EM1, EM6, EM8, EM11, EM12, GN35A. Refer to www.ermanz.govt.nz for information on Controls.

Country/Region: Australia

Regulatory information: No information available

Poisons Schedule: No information available

16. OTHER INFORMATION

Date of Issue: 8th November, 2010

Reasons for Issue: Issue of new Safety Data Sheet.

Replaces : Not applicable

Abbreviations:

CAS Chemical Abstracts Service

EEL Environmental Exposure Limit

ERMA Environmental Risk Management Authority

HSNO Hazardous Substances & New Organisms Act, 1996

WES-TWA Workplace Exposure Standard – Time Weighted Average (8 hr day)

WES-STEL Workplace Exposure Standard – Short-term Exposure Limit (15 min)

References:

AIR POLLUTION ASPECTS OF BORON AND ITS COMPOUNDS, National Air Pollution Control Administration. Norman L. Durocher. Set. 1969.

The information used in the preparation of this Safety Data Sheet was correct at the time of writing to the best of the writer's knowledge. This document should be taken as a safety guide for this product and its recommended uses. Please consult relevant legislation and regulations governing the use, transport and storage and handling of this product. For further information please contact Jabez Trading Ltd.