

# Material Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** PESTBOR

**DATE OF ISSUE:** 6<sup>th</sup> March 2009

**MANUFACTURERS CODE: -** Mycrobtor

**USE:** Powder for dilution with water and then application to timber where to be used in above-ground situation and not exposed outdoors or to the weather.

**COMPANY IDENTIFICATION :** Jabez Trading Ltd  
PO Box 188  
Napier 4140  
Ph 06 842 1371

**EMERGENCY TELEPHONE NUMBER:** NATIONAL POISON CENTRE 0800 764 766  
POLICE, FIRE, AMBULANCE Dial 111

## 2. HAZARDOUS IDENTIFICATIONS

### EMERGENCY OVERVIEW

ERMA New Zealand Approval Code: HSR000911  
HSNO Hazard Classification : 6.1E, 6.4A, 6.8B, 9.1D  
Refer to [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for Controls for this substance.



**TOXIC**



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**Signal word:** WARNING

#### Hazard Statements

H304 May be harmful if swallowed  
H320 Causes eye irritation  
H355 Suspected of damaging fertility or the unborn child  
H413 May cause long lasting harmful effects to aquatic life

#### Precautionary Statements

P102 Keep out of reach of children  
P103 Read label before use

- P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P264 Wash hands thoroughly after handling  
P273 Avoid release to environment  
P281 Use personal protective equipment as required

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name	CAS. No	% w/w
Sodium borate	12280-41.2 *	> 98

\* alternative CAS No 12280-03-4

### 4. FIRST AID MEASURES

Consult the National Poison Centre, telephone 0800 764 766 [ 0800 POISON ] or a doctor in every case of suspected poisoning. Never give fluids or induce vomiting if the person is unconscious or convulsing regardless of the cause of injury. If breathing difficulties occur, seek medical attention immediately.

If you feel unwell, get medical attention. If medical advice is needed, have product container or label at hand.

**EYES:** Hold eyes open and carefully rinse eyes with running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical advice if irritation persists.

**SKIN:** Remove contaminated clothing and wash affected area with soap and water. If skin irritation occurs, get medical attention.

**INGESTION:** Rinse mouth. Give a glass of water to drink. Immediately call a Poison Centre or doctor for treatment advice. Do not induce vomiting unless told to do so by a Poison Centre or doctor.

**INHALATION:** Move person to fresh air. Seek medical advice if ill-effects occur.

If person is not breathing, begin artificial respiration. Use mouth-to-nose rather than mouth-to-mouth. Get medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** Non flammable

**FLAMMABLE LIMITS:**

LFL: Not determined

UFL: Not determined

**EXTINGUISHING MEDIA:** Water, foam or dry chemical.

**FIRE & EXPLOSION HAZARDS:** Avoid breathing smoke.

**FIRE-FIGHTING EQUIPMENT:** Wear self-contained breathing apparatus and personal protection clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**SPILLS:** Contain spill. Do not contaminate watercourses or the ground. Recover to suitable labelled container that can be sealed.

**DISPOSAL:** Dispose of to an approved landfill in accordance with local regulations.

## 7. HANDLING AND STORAGE

**HANDLING:** Keep out of reach of children. . Wear plastic, rubber, PVC or neoprene gloves and eye protection. Wash hands before meals and after use.

**Approved Handler:** No

**Tracked Substance:** No

**STORAGE:** Store in tightly closed original container in a secure cool dry place , out of reach of children, and away from food, drink and animal foodstuffs.

**Workplace Signage :** Required at places where quantities exceed 10,000 kg

**Location Certificate:** No

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE GUIDELINES:** No Tolerable Exposure Limit (TEL) nor Workplace Exposure Standard (WES) have been set for this substance. The following information applies to other borate salts.

	WES- TWA
Borates, tetra, sodium salts	
- anhydrous	1 mg/m <sup>3</sup>
-decahydrate	5 mg/m <sup>3</sup>
-pentahydrate	1 mg/m <sup>3</sup>

**ENGINEERING CONTROLS:** Use in a well ventilated area.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Avoid contact of skin and eyes with product.

**Face/Eye protection:** Safety glasses or goggles.

**Skin protection:** Plastic, rubber, neoprene or PVC gloves.

**Respiratory protection:** Use in a well-ventilated area. Use mechanical ventilation in poorly ventilated or confined spaces.

**Other:** Overalls recommended to protect clothes from contamination.

After use, wash protective equipment including the inside of gloves. Dry before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Melting point (°C):</b>	Not applicable
<b>Flash point (°C):</b>	Not flammable
<b>Auto ignition temperature (°C):</b>	Not known
<b>Density at 20°C, g/ml:</b>	Not known
<b>Solubility in water:</b>	Soluble
<b>pH:</b>	7.6 (10% solution)

## 10. STABILITY AND REACTIVITY

**STABILITY (CONDITIONS TO AVOID):** Stable under normal storage and use conditions.

**INCOMPATIBILITY (MATERIALS TO AVOID) :** Avoid contact with strong acids and finely divided zirconium.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not known.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

## 11. TOXICOLOGICAL INFORMATION

**POTENTIAL HEALTH EFFECTS:** This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

**Toxicity data:**

Sodium borate Oral, LD50 (rat) 2500 mg/kg

**EYE:** Powder is irritating to eyes resulting in pain and sever conjunctivitis. Corneal injury may result if not promptly treated.

**SKIN:** Not identified as skin irritant although prolonged contact may result in moderate discomfort and lead to skin reactions resulting in dermatitis. Skin contact with product dissolved in solution, or with perspiration, may increase any irritant effect.

**INGESTION:** May be harmful if swallowed and result in irritation of gastrointestinal tract. Borate poisoning results in nausea, vomiting, diarrhea, pain in upper abdomen, weakness, lethargy, headache, restlessness, tremors and convulsions. Lethal does is over 30 grams.

**INHALATION:** Dust may be highly irritating to upper respiratory tract. Inhalation of small amounts of dust over long periods may cause poisoning.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Borates are not classified as confirmed or suspected target organ or system toxicants. However should borate poisoning occur the central nervous system is stimulated leading to depression and affects the digestive system, may cause skin eruptions and damage to the liver and kidneys.

**CANCER INFORMATION:** Not classified as carcinogen.

**TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS:** Boron compounds are identified as suspected reproductive toxicants. Prolonged ingestion of borate affects males and females. Borates can accumulate in the testes and deplete germ cells.

**MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Not a mutagen.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE:** No information.

**MOVEMENT AND PARTITIONING:** Product is soluble in water.

**DEGRADATION AND PERSISTENCE:** Borate compounds are naturally occurring in the environment.

**ECOTOXICOLOGY:** No EEL has been set for this substance. Product classified as 9.1D because of biocidal action.

### 13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with Regional Authority or local council bylaws. Dispose of empty containers safely. Crush and dispose of by burying in an approved landfill. Do not use empty containers for storing other products.

### 14. TRANSPORT REGULATIONS

#### **PUBLIC PASSENGER VEHICLE TRANSPORT:**

HSNO Regulations limit packages to no more than 2.5 L when carried on passenger service vehicles.

#### **TRANSPORT INFORMATION:**

UN Number: Not classified

HAZCHEM: -

Class: -

Packing Group: III (or IV) - refer section 15

### 15. REGULATORY INFORMATION

Classified as hazardous under the HSNO Act 1996 according to criteria of Minimum Degrees of Hazard (Threshold) Regulations, 2001.

**ERMA New Zealand Approval Code:** HSR000911

Refer to Section 2 for classifications and to [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for Controls.

**Packaging requirements:** In quantities greater than 3kg must be packaged according to Schedule 3 (UN PG III), but can be packaged according to Schedule 4 when in quantities equal to or less than 3kg. Packages of less than 2.5 kg must be child resistant.

#### **Emergency Management:**

Level 1 for any quantity

Level 2 for quantities equal to or greater than 3 kg

Level 3 for quantities greater than 10,000 kg

### 16. OTHER INFORMATION

Before using any product, read its label carefully and ensure that you understand its contents. This information is, to the best of our knowledge and belief, accurate and reliable at the date of publication. The information relates only to the specific material designated and may not be valid for such material if it is used in combination with any other material(s). Jabez Trading Ltd disclaims any liability for loss or damage suffered from the use of this information. This does not affect your statutory rights. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for his/her own particular use.

END of SAFETY DATA SHEET