Section 1 - Identification of The Material and Supplier

Ensystex Australasia Pty Ltd
Warehouse D, Building 6, The Switchyard
161 Manchester Road, AUBURN, NSW 2144
13 35 36 (all hours)

Chemical nature: Inorganic borates.

Trade Name: **BORATHOR™ MAX PT**

Product Use: Termiticide, Insecticide and Fungicide for use as described on the product label.

Creation Date: **September, 2018**

This version issued: **September, 2023** and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xn, Harmful. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

SUSMP Classification: S6

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: 3082

GHS Classification:

Acute toxicity – Oral: Category 5
Reproductive toxicity: Category 2
Specific target organ toxicity (Repeated exposure): Category 2
Hazardous to aquatic environment, short-term hazard: Category 3

GHS Signal word: WARNING

HAZARD STATEMENT:

H303: May be harmful if swallowed.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to kidneys by prolonged or repeated exposure by ingestion.
H402: Harmful to aquatic life.

PREVENTION

P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe spray mist or vapours.
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing, and eye protection.

RESPONSE

P314: Get medical advice if you feel unwell.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P308+P313: If exposed or concerned: Get medical advice.

STORAGE

P405: Store locked up.

DISPOSAL

P501: Dispose of contents and containers as specified on the registered label.

Emergency Overview

Physical Description & colour: Clear liquid.
Odour: No odour.
Major Health Hazards: May cause eye and skin irritation. Inhalation of mist may cause mild mucous membrane and respiratory irritation. Repeated or high level of ingestion may cause potentially fatal kidney damage

Potential Health Effects

Inhalation:
Short term exposure: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract.
Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:
Short term exposure: Available data indicates that this product is not harmful. It should present on hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mind transient discomfort.
Long Term exposure: May cause irritation on prolonged or repeated exposure.

Eye Contact:
Short term exposure: This product may cause a slight irritation or reddening of the eye, pain and tearing.
Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:
Short term exposure: Significant oral exposure is considered to be unlikely. Available data shows that this product may be harmful, but symptoms are not available.
Long Term exposure: Repeated ingestion may cause kidney damage.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.
NTP: No significant ingredient is classified as carcinogenic by NTP.
IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m^3)	STEL (mg/m^3)
Disodium octaborate tetrahydrate	12280-03-4	40	not set	not set
Ethylene glycol	107-21-1	50 - 60	52	104
Other non hazardous ingredients	various	0 - 10	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 11 26 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.
Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poisons Information Centre, or a doctor immediately for treatment advice.
Eye Contact: Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinse eyes. Call a Poisons Information Centre, or a doctor immediately for treatment advice.

Ingestion: Call a Poisons Information Centre, or a doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless told to do by the Poisons Information Centre. Never give any thing by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Hazardous combustion product are carbon oxide (CO_x) and ethylene oxide.
Extinguishing Media: Foam, Carbon dioxide (CO_2), dry chemical, soft stream or water fog only if necessary.
Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flash point:	> 104 °C/ > 220 °F TOC.
Upper Flammability Limit:	N/A
Lower Flammability Limit:	N/A
Autoignition temperature:	N/A
Flammability Class:	N/A

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. No special recommendation for clothing materials. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the clean-up area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).
Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Avoid contact with eyes, skin and clothing. Do not contaminate other pesticide. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.
Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Keep away from heat sources. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	**TWA (mg/m^3)**	**STEL (mg/m^3)**
Ethylene glycol (vapour)	52	104

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.
Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.
Respirator: Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Clear liquid.
Odour:	No odour.
Boiling Point:	No data.
Freezing/Melting Point:	No data.
Volatiles:	No data.
Vapour Pressure:	No data.
Vapour Density:	No data.
Specific Gravity:	1.38
Water Solubility:	Soluble in water.
pH:	6.7
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	No data.
Coeff Oil/water distribution:	No data.
Autoignition temp:	No data.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid: None known.
Incompatibilities: Strong oxidising agents and aluminum.
Fire Decomposition: Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to dryness. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Toxicity:
Product: Inhalation, LC_{50} rat > 5.06 mg/L/4 hr (no mortality was observed in any test); Oral, LD_{50} rat > 5,000 mg/kg; Dermal, LD_{50} rabbit > 5,050 mg/kg
Disodium octaborate tetrahydrate: Inhalation, LC_{50} rat > 2.0 mg/L; Oral, LD_{50} rat 3,500 mg/kg; Dermal, LD_{50} rabbit > 2,000 mg/kg
Ethylene glycol: Oral, LD_{50} rat 4,700 mg/kg; Dermal, LD_{50} rabbit 9,350 mg/kg
Reproductive Effects: Ethylene glycol has been found to cause birth defects in laboratory animals, but no correlation has been proven to humans.
Teratogenic Effects: No data available.
Mutagenic Effects: No information available.
Carcinogenic Effects: Not known to cause cancer.
Neurological Effects: Not know to cause neurological effects.

Classification of Hazardous Ingredients

Ingredient	Risk Phrases
Ethylene glycol	Conc >=25%: Xn; R22

Section 12 - Ecological Information

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Effects on Aquatic Organisms:

Disodium octaborate tetrahydrate:

Fish:	LC_{50} Rainbow trout : 150 mg B/L/24 day
Aquatic crustacea:	EC_{50} Water flea (*Daphnia Magna*) : 133 mg B/L/48 hr.
Algae/aquatic plants:	EC_{50} Green algae (*Scenedesmus quandricauda*) : 24 mg B/L/96 hr

Ethylene glycol:

Fish:	LC_{50} Flathead minnow : < 10,000 mg/L/96 hr.
Aquatic crustacea:	EC_{50} Water flea (*Daphnia Magna*) : 100,000 mg/L/48 hr.
Algae/aquatic plants:	EC_{50} Green algae : > 10,000 mg/L/72 hr.

ENVIRONMENTAL FATE

Persistence and degradability: Disodium octaborate tetrahydrate readily degrades to boron in the environment. Boron is an element found naturally in the environment. Ethylene glycol is readily biodegradable.

Bioaccumulative potential: Log K_{OW} of Disodium octaborate tetrahydrate is -07570 at 25 °C. The potential for bio-concentration of Ethylene glycol in aquatic organisms is low.

Mobility in soil: Disodium octaborate tetrahydrate is soluble in water and is leachable through normal soil.

Other adverse effect: Some plants are sensitive to boron. Avoid releases into the environment. Use product only as recommended by label.

Section 13 - Disposal Considerations

Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waster disposal facility. Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Section 14 - Transport Information

ADG Code: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Note: if a shipment of a reportable quantity (8,333 lbs) in a single package is involved, the following information applies:

UN Number:	3082
Proper Shipping Name:	RQ, Environmentally hazardous substance, liquid, n.o.s. (Ethylene glycol)
Hazard Class:	9
Packing Group:	III

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

If there is any conflict between this SDS and the registered label, instructions on the label prevail.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.