

## 1. Identification of Substance & Company

### Product

<b>Product name</b>	Exterm-An-Ant
<b>HSNO approval</b>	HSR000692
<b>Approval description</b>	Ready to use liquid containing 80 g/litre boric acid and 56 g/litre sodium borate
<b>UN number</b>	NA
<b>Proper Shipping Name</b>	NA
<b>Packaging group</b>	NA
<b>Hazchem code</b>	NA
<b>Uses</b>	Ant killer

### Company Details

<b>Company</b>	<b>Tasmex Ant Labs Limited</b>
<b>Address</b>	20 Mexted Place Hamilton 3216 PO Box 1186 Cambridge 3450
<b>Telephone</b>	+64 7 856 2326
<b>Fax</b>	+64 7 856 2326
<b>Website</b>	www.antkiller.co.nz

**Emergency Telephone Number: 0800-764 766**

## 2. Hazard Identification

### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR000692, Ready to use liquid containing 80 g/litre boric acid and 56 g/litre sodium borate), and is classified as follows:

Classes	Hazard Statements
6.8B	H361 - Suspected of damaging fertility or the unborn child.
9.1D	H402 - Harmful to aquatic life.

### SYMBOLS

## WARNING



### Other Classifications

There are no other classifications that are known to apply.

### Precautionary Statements

- P103 - Read label before use.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P281 - Use personal protective equipment as required.
- P273 - Avoid release to the environment.
- P308+P313 - If exposed or concerned: Get medical advice/ attention.

## 3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Boric acid	10043-35-3	80g/L
Sodium tetraborate pentahydrate	12179-04-3	56g/L
Ingredients not contributing to HSNO classes	Proprietary	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also possible.

#### 4. First Aid

##### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). If exposed or concerned: Get medical advice/ attention.

**Recommended first aid facilities** Ready access to running water is recommended.

##### Exposure

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.  
**Eye contact** If product gets in eyes, wash material from them with running water for several minutes. If symptoms persist, seek medical advice.  
**Skin contact** This product is non-irritating to skin. No further measures should be required.  
**Inhaled** Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

##### Advice to Doctor

Treat symptomatically

#### 5. Firefighting Measures

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.  
**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.  
**Unsuitable extinguishing substances:** Unknown.  
**Products of combustion:** Carbon dioxide, and if combustion is incomplete, carbon monoxide, oxides of boron and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.  
**Protective equipment:** Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.  
**Hazchem code:** NA

#### 6. Accidental Release Measures

**Containment** If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.  
**Emergency procedures** In the event of a large spill (e.g. >100L) alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).  
**Clean-up method** Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.  
**Disposal** Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.  
**Precautions** Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

**7. Storage & Handling**

**Storage** Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.

**Handling** Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.

**8. Exposure Controls / Personal Protective Equipment**

**Workplace Exposure Standards**

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016)	Ingredient	WES-TWA*	WES-STEL
	Borates anhydrous	1mg/m <sup>3</sup>	data unavailable
	Borates decahydrate	5mg/m <sup>3</sup>	data unavailable
	Borates pentahydrate	1mg/m <sup>3</sup>	data unavailable

\* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

**Engineering Controls**

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

**Personal Protective Equipment**

**Eyes** Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear if splashes are likely.

**Skin** Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time.

**Respiratory** A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a particulate filter (N95, dust/mist). If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.



**WES Additional Information**

Not applicable

**9. Physical & Chemical Properties**

**Appearance** Green liquid

**Odour** Odourless

**pH** No data

**Vapour pressure** No data

**Viscosity** No data

**Boiling point** No data

**Freezing / melting point** No data

**Solubility** Soluble in water

**Specific gravity / density** ~1g/cm<sup>3</sup>

**Flash point** No data

**Danger of explosion** No data

**Upper & lower flammable limits** No data

**Corrosiveness** non corrosive

## 10. Stability & Reactivity

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
<b>Incompatible groups</b>	None known
<b>Substance Specific Incompatibility</b>	Strong reducing agents, base metals
<b>Hazardous decomposition products</b>	None known
<b>Hazardous reactions</b>	None known

## 11. Toxicological Information

### Summary

IF SWALLOWED: Ingestion of large amounts may cause vomiting and upset stomach.

IF IN EYES: May cause transient stinging or redness.

IF ON SKIN: Product is not considered to be a skin irritant.

IF INHALED: No inhalation hazard identified from data found.

CHRONIC: Exposure to borates may cause effects to the reproductive system.

### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: Boric acid 466 mg B/kg (mouse) = 2668 mg/kg (mouse), Sodium tetraborate 3493 mg/kg (rat).
	<b>Dermal</b>	No evidence of dermal toxicity.
	<b>Inhaled</b>	No evidence of inhalation toxicity.
	<b>Eye</b>	The mixture is not considered to be an eye irritant by EPA. Borates and Boric acid may be irritating to the eyes at higher concentrations.
<b>Chronic</b>	<b>Skin Sensitisation</b>	The mixture is not considered to be a skin irritant by EPA. Boric acid is a mild skin irritant. No ingredient present at concentrations > 0.1% is considered a sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental</b>	The mixture is considered to be a suspected reproductive or developmental toxicant. Animal experiments have shown that ingestion of borates at high doses or over prolonged periods may affect the reproductive system in both males and females.
	<b>Systemic Aggravation of existing conditions</b>	No ingredient present at concentrations > 1% is considered a target organ toxicant. None known.

## 12. Ecological Data

### Summary

This mixture is intended to be used as an ant killer. It is classed as 9.1D due to the biocidal action.

### Supporting Data

<b>Aquatic</b>	EPA have classed this mixture as 9.1D due to its biocidal action. Boric acid and other borates are classed 9.1D. Data available for the ingredients: Boric acid and Borax: EC <sub>50</sub> : 24 mg/L – also considered to be a biocide.
<b>Bioaccumulation</b>	No data for mixture is available.
<b>Degradability</b>	No data for mixture is available.
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial vertebrate</b>	This product is not considered harmful to terrestrial vertebrates. No LC <sub>50</sub> (diet) data for ingredients are available and the classification is based on the LD <sub>50</sub> (oral) >5000mg/kg– see section 11 – oral toxicity.
<b>Terrestrial invertebrate</b>	The mixture is considered harmful to terrestrial invertebrate (ants). EPA have not classed this mixture as 9.4.
<b>Biocidal</b>	It is intended to be used as an ant killer
<b>Environmental effect levels</b>	No EELs are available for this mixture or ingredients

### 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

### 14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

<b>UN number:</b>	NA	<b>Proper shipping name:</b>	NA
<b>Class(es)</b>	NA	<b>Packing group:</b>	NA
<b>Precautions:</b>	NA	<b>Hazchem code:</b>	NA

### 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR000692, Ready to use liquid containing 80 g/litre boric acid and 56 g/litre sodium borate.

#### Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing > 0.1L.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 10000L is stored.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 10000L is stored.
Signage	Required if > 10000L is stored.
Location test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

This product is approved for use in premises processing all animal products, operating under the Animal Products Act regime. Regulation 11(4)(b) of the Animal Products Regulations 2000 and Regulation 18(4)(b) of the Animal Products (Regulated Control Scheme – Limited Processing Fishing Vessels) regulations 2001, Clause 4(1) of the Animal Products (specifications for Products Intended for Human Consumption) Notice 2004, Clause 4(1) of the Animal Products (Specification for Products intended for Animal Consumption) Notice 2006

This product is approved for use in farm dairies. Clause 30(3) of the Animal Products (dairy) regulations 2005.

Exterm-an-ant passes AsureQuality assessment for food/beverage/dairy farm & factory food/storage areas with no potential food contact H3546 with conditions.

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

## 16. Other Information

### Abbreviations

<b>Approval Code</b>	Approval HSR000692, Ready to use liquid containing 80 g/litre boric acid and 56 g/litre sodium borate Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Agency
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS (SDS)</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>PES</b>	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) <a href="http://www.epa.govt.nz/hs/compliance/chemicals.html">http://www.epa.govt.nz/hs/compliance/chemicals.html</a> , for specific chemicals.
<b>EPA Transfer Gazettes</b>	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
<b>WES 2002</b>	Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.
<b>WES 2013</b>	The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	Suppliers SDS

### Review

<b>Date</b>	<b>Reason for review</b>
October 2013	Not applicable – new SDS
December 2017	Update, change of logo, HSE to HSAW, MPI and AsureQuality information.

### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: +64 9 940 30 80.

