

## Section 1 - Identification of The Material and Supplier

Ensystem Australia Pty Ltd  
Unit 3, The Junction Estate  
AUBURN NSW 2144  
13 35 36 (all hours)

**Chemical nature:** Insecticide  
**APVMA Code:** 59139  
**Trade Name:** TRITHOR® Termite Protection  
**Product Use:** Termite management system for the protection of new buildings.  
**Creation Date:** October 2005  
**This version issued:** October 2022 and is valid for 5 years from this date.  
**Poisons Information Centre: Phone 13 11 26 from anywhere in Australia**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

Not classified as 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:** None allocated.

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

**UN Number:** None allocated

**GHS Signal word: NONE. Not hazardous.**

### HAZARD STATEMENT:

H401: Toxic to aquatic life

### PREVENTION

P102: Keep out of reach of children.

P273: Avoid release to the environment.

### RESPONSE

P352: Wash with plenty of soap and water.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

### STORAGE

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

### DISPOSAL

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

## Emergency Overview

**Physical Description & colour:** White inner core with membrane top (blue) and bottom (yellow).

**Odour:** No odour.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Deltamethrin	52918-63-5	0.2%	not set	not set
Other non-hazardous ingredients		to 100	not set	not set

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.

## SAFETY DATA SHEET

## Section 4 - First Aid Measures

### General Information:

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

**Inhalation:** First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until product is removed.

**Eye Contact:** If irritation does occur flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

**Ingestion:** Wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

## 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.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog.

Do not use high volume water jet.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Upper Flammability Limit:** No data.

**Lower Flammability Limit:** No data.

**Autoignition temperature:** No data.

## Section 6 - Accidental Release Measures

**Accidental release:** Unlikely due to product presentation. Does not normally need any special clean-up measures. Collect product into labelled containers for recycling or salvage and dispose of promptly via an approved industrial waste disposal site. Refer to product label for specific instructions. 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.

## Section 7 - Handling and Storage

**Handling:** No specific precautions required when handling unopened packs. When using do not eat, drink, or smoke. Wash hands immediately after work.

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:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

Do not touch or rub eyes, nose, or mouth with hand. Facial skin contact may cause temporary numbness.

When working on building site it is strongly recommended to use work gloves and safety glasses. In hot or humid environments, the application of a barrier cream to exposed skin is a good idea.

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<sup>3</sup>)**                                      **STEL (mg/m<sup>3</sup>)**

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

## SAFETY DATA SHEET

The ADI for deltamethrin is set at 0.01 mg/kg/day. The corresponding NOEL is set at 1 mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

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 be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Not usually required.

**Skin Protection:** Not usually required.

**Respirator:** Not usually required.

### Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	White inner core with plastic membrane top (blue) and bottom (yellow).
<b>Odour:</b>	No odour.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	No specific data. Solid at normal temperatures.
<b>Volatiles:</b>	Nil at 100 °C.
<b>Vapour Pressure:</b>	Nil at normal ambient temperatures.
<b>Vapour Density:</b>	Not applicable.
<b>Specific Gravity:</b>	No data.
<b>Water Solubility:</b>	Insoluble.
<b>pH:</b>	No data. Expected to be neutral.
<b>Volatility:</b>	Nil at normal ambient temperatures.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	Not applicable.
<b>Coeff Oil/water distribution:</b>	No data
<b>Viscosity:</b>	Not applicable.
<b>Autoignition temp:</b>	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:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** Strong oxidising agents.

**Fire Decomposition:** 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

#### Acute Toxicity:

The acute oral LD<sub>50</sub> in male rats ranged from 128 mg/kg to greater than 5,000 mg/kg depending on the carrier and conditions of the study; the LD<sub>50</sub> for female rats was 52 mg/kg and other published values range from 31 to 139 mg/kg. Values ranging from 21 to 34 mg/kg were obtained for mice; while dogs had a reported LD<sub>50</sub> of 300 mg/kg. The acute percutaneous LD<sub>50</sub> for rats was reported to be greater than 2,000 mg/kg; greater than 10,000 mg/kg for quail; and greater than 4,640 mg/kg for ducks. The acute dermal LD<sub>50</sub> for rabbits was greater than 2,000 mg/kg. No skin irritation and slight eye irritation were reported.

**Chronic Toxicity:** Workers exposed to technical grade deltamethrin during its manufacture over 7-8 years experienced transient skin and mucous membrane irritation, which could be prevented by the use of gloves and face masks. No other ill effects were seen.

**Reproductive Effects:** Oral administration of deltamethrin to mice on days 7 to 16 of gestation produced a dosage-related reduction of weight gain but no effect on numbers of implants, foetal mortality, foetal weight, or malformations.

**Teratogenic Effects:** No reported teratogenic effects.

**Mutagenic Effects:** No reported mutagenic effects.

**Carcinogenic Effects:** No reported carcinogenic effects.

## SAFETY DATA SHEET

**Organ Toxicity:** Deltamethrin is hydrolysed by liver microsomal enzymes to 3-(2,2dibromovinyl) 2,2-cyclopropane carboxylic acid and 3-phenoxybenzaldehyde.

### Classification of Hazardous Ingredients

#### Ingredient

#### Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations. There is no data to hand indicating any particular target organs.

### Potential Health Effects

#### Inhalation:

**Short term exposure:** Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful.

**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 no hazards in normal use. However, product may be irritating, but is unlikely to cause anything more than transient discomfort.

**Long Term exposure:** No data for health effects associated with long term skin exposure.

#### Eye Contact:

**Short term exposure:** This product may be irritating to eyes, but unlikely to cause more than transient discomfort.

**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. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term exposure:** No data for health effects associated with long term ingestion.

#### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** Deltamethrin is Class 3 - unclassifiable as to carcinogenicity to humans.

See the IARC website for further details. A web address has not been provided as addresses frequently change.

### Section 12 - Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment. This product is not biodegradable.

**Effects on Birds:** The reported 8-day LC<sub>50</sub> for ducks was greater than 4,640 mg/kg diet; and greater than 10,000 mg/kg diet for quail.

**Effects on Aquatic Organisms:** As is common with many pyrethroids, deltamethrin has a high toxicity to fish under laboratory conditions. However, in field conditions under normal conditions of use, fish are not harmed. In laboratory trials, the LC<sub>50</sub> for fish was 1-10 micrograms/L. Aquatic fauna, particularly crustacea, may be affected, but fish are not harmed under normal conditions of use.

**Effects on Other Animals (Non-target species):** Deltamethrin is considered toxic to bees. Deltamethrin is very toxic over long periods to the predatory mite *Typhlodromum pyri*. The parasitic wasp *Encarsia formosa*, released in greenhouses to combat whitefly, is too sensitive to allow a treatment with deltamethrin against excessive outbreaks of whiteflies. Deltamethrin had little or no effect on adults or cocoons of *Apanteles plutellae*, a parasite of the diamond back moth in India. Spiders were also indicated to be strongly affected in field investigations.

#### ENVIRONMENTAL FATE

**Breakdown of Chemical in Soil and Groundwater:** In soil, degradation occurs within 1-2 weeks.

**Breakdown of Chemical in Surface Water:** Deltamethrin in pond water was rapidly adsorbed, mostly by sediment, in addition to uptake by plants and evaporation into the air.

**Breakdown of Chemical in Vegetation:** About 10 days after use, there are no deltamethrin residues observed on plants. There is no known phytotoxicity to crops.

### SAFETY DATA SHEET

### Section 13 - Disposal Considerations

**Disposal:** Dispose of unused off-cuts by laying over the TRITHOR barrier at an installation site and cover with concrete slab or place in cavity wall. If this is not possible, off-cuts should be placed in a sealed plastic bag and disposed of via an approved industrial waste disposal site. Puncture and deliver empty packaging to an approved waste management facility in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

### Section 14 - Transport Information

**UN Number:** 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.

### Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Deltamethrin, is mentioned in the SUSMP.

### 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:

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

### SAFETY DATA SHEET