

Material Safety Data Sheet

TRITHOR* TERMITE PROTECTION

Section 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

This product is NOT classified as Hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Ensystem Australia Pty Ltd
Unit 3 The Junction Estate
4 – 6 Junction Street
AUBURN NSW 2144

13 35 36

Substance: Synthetic fibre blanket, impregnated with deltamethrin, and contained within polyethylene sheets.

Trade Name: Trithor Termite Protection.

Product Use: A barrier system for the prevention of concealed termite entry in accord with the Australian Standard series AS 3600 *Termite management*.

Creation Date: October, 2005

Revision Date: October, 2007

Section 2 - Composition/Information on Ingredients

Ingredients	CAS No	Conc.
Deltamethrin	52918-63-5	1.0g / m ²
Propylene glycol	57-55-6	>0.1g / m ²
Plastics	63428-83-1/9003-07-0/9002-88-4	> 80% w/w
Other non hazardous ingredients		to 100

This is a commercial product whose exact ratio of components may vary.

Section 3 - Hazards Identification

Statement of Hazardous Nature

This product is NOT classified as hazardous according to the criteria of NOHSC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Safety Phrases: Do not touch or rub eyes, nose or mouth with hand. Facial skin contact may cause temporary numbness. Wash hands after use.

SUSDP Classification: Not classified.

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: White fibre blanket sealed within blue and yellow plastic membranes.

Odour: None.

Major Health Hazards: Physical signs of deltamethrin toxicity can include dermatitis after skin contact; exposure to sunlight can make it worse. Hazard is considered slight.

Potential Health Effects

See section 11 for Chronic exposure studies.

Inhalation:

Short term exposure: Available data indicates that this product is not harmful.

Skin Contact:

Short term exposure: This product may cause skin numbness to sensitive individuals handling the product. It is considered unlikely to cause anything more than transient discomfort.

Eye Contact:

Short term exposure: This product should not be irritating to eyes. Do not rub eyes with hands after handling the product. Wash hands after use.

Ingestion:

Short term exposure: Not likely due to presentation.

Carcinogen Status:

NOHSC: No significant ingredient is classified as carcinogenic by NOHSC.

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

IARC: Deltamethrin & polypropylene are Class 3 - unclassifiable as to carcinogenicity to humans.

Section 4 - First Aid Measures

General Information:

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

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

Skin Contact: If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If in doubt obtain medical advice.

Eye Contact: If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes. Obtain medical advice if irritation becomes painful.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is no risk of an explosion from this product under normal circumstances

This product is combustible. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Combustible. Use foam, dry chemical powder, BCF (where regulations permit), water spray or fog, or carbon dioxide.

Fire Fighting: When fighting fires involving significant quantities of this product, wear a splash suit complete with self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Not applicable.

Section 7 - Handling and Storage

Handling: Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed.

Storage: Store in a dry, cool, well-ventilated area out of direct sunlight.

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**, Industrial Clothing: **AS2919**, Industrial

Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

The ADI for Deltamethrin is set at 0.01mg/kg/day. The corresponding NOEL is 1mg/kg/day. ADI - Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2002.

Ventilation: No special ventilation requirements are necessary.

Eye Protection: Not required.

Skin Protection: Wash hands after use.

Respirator: Not required.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White fibre blanket with plastic membrane top (blue) and bottom (yellow).
Odour:	None.
Boiling Point:	Not applicable.
Freezing/Melting Point:	Not applicable.
Vapour Pressure:	Not applicable.
Water Solubility:	Not soluble in water.
pH:	Normally about pH 6-7.

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Store out of direct sunlight. Avoid extreme heat.

Incompatibilities: Strong oxidising agents.

Fire Decomposition: This product is likely to decompose only after strong heating. Carbon dioxide, and if combustion is incomplete, carbon monoxide and acrid smoke.

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Toxicity: The acute oral LD₅₀ for deltamethrin in male rats typically ranged from 128 mg/kg to greater than 5,000 mg/kg depending on the carrier and conditions of the study. The acute percutaneous LD₅₀ 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 LD₅₀ for rabbits was greater than 2,000 mg/kg.

Chronic Toxicity: In 2-year feeding trials, the reported NEL (no effect level) for deltamethrin was 12 mg/kg diet for mice; and 2.1 mg/kg diet for rats. The dose without activity in rats over a 90-day period was 10 mg/kg/day.

Reproductive Effects: A reproductive 3-generation study in rats reported a reproductive NOEL to be greater than 2.5 mg/kg/day. Levels tested were 0, 0.1, 1.0 and 2.5 mg/kg/day. 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 the number of implants, foetal mortality, foetal weight or malformations.

Teratogenic Effects: No reported teratogenic effects in mice, rats and rabbits. No teratogenic activity.

Mutagenic Effects: No mutagenic effects in mice, rats and rabbits. Deltamethrin has no mutagenic activity.

Section 12 - Ecological Information

Effects on Birds: The reported 8-day LC₅₀ for deltamethrin 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 all pyrethroids, deltamethrin has a high toxicity to fish under laboratory conditions. However, in the field under normal conditions of use, fish are not harmed. Deltamethrin had an impact on aquatic herbivorous insects. This impact led to an increase of algae. Although the fish (fathead minnows) accumulated the deltamethrin, no mortality could be observed. In laboratory trials, the LC₅₀ for fish was 1-10 micrograms/L.

ENVIRONMENTAL FATE

Breakdown of Chemical in Soil and Groundwater: Occurs within 2 weeks in direct contact with soil.

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.

Section 13 - Disposal Considerations

Disposal: Dispose of in normal waste landfill.

Section 14 - Transport Information

ADG Code: This product is not a Dangerous Good. No special transport conditions necessary.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

This MSDS 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 MSDS 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 Ensystem 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.