

Material Safety Data Sheet

ULTRATHOR™ Water-based Termiticide & Insecticide

Section 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

This product is classified as Hazardous according to the criteria of NOHSC Australia.

This product is NOT Dangerous Goods according to the Australian Dangerous Goods (ADG) Code

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Substance: Fipronil, a gamma-aminobutyric (GABA) receptor inhibitor.

Trade Name: Ultrathor Water-based Termiticide & Insecticide

Product Use: Insecticide for use as described on the product label.

Creation Date: September 2011

Reviewed on:

Section 2 - HAZARDS IDENTIFICATION

Risk Phrases:	Harmful by inhalation. Irritating to eyes and skin. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	Will irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use.
SUSDP Classification:	S5 (Standard for the Uniform Scheduling of Drugs and Poisons).
ADG Classification:	Not classified as a dangerous good under transport regulations.
UN Number:	3082.

Emergency Overview

Physical Description & colour: Cream opaque suspension.

Odour: Mild characteristic odour.

Major Health Hazards: No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may occur if the product is mishandled are respiratory difficulty, decreased reflexes, lethargy, tremors, and in severe cases convulsions.

Potential Health Effects

See section 11 for Chronic exposure studies.

Inhalation:

Short term exposure: This product is irritant.

Skin Contact:

Short term exposure: Exposure may cause irritation.

Eye Contact:

Short term exposure: This product is irritating to eyes.

Ingestion:

Short term exposure: Harmful if swallowed.

Carcinogen Status:

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

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)
Fipronil	120068-37-3	10	not set	not set
Other non hazardous ingredients	secret	10 approx.	not set	not set
Water	7732-18-5	to 100	not set	not set

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

The 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 should not be exceeded for more than 15 minutes and should not be repeated for 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 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 MSDS with you when you call.

Inhalation: If inhaled, remove to fresh air and obtain medical advice.

Skin Contact: Remove contaminated clothing. Wash affected areas with plenty of soap and water. If irritation develops, seek medical attention.

Eye Contact: Rinse immediately with clean water, with eyelids held open, for at least 15 minutes and obtain medical advice.

Ingestion: Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Advice to Doctor: Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. Treat symptoms. No specific antidote known. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Continue monitoring due to slow elimination of the compound.

Symptoms and Effects No adverse health effects are expected if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms that may occur if the product is mishandled are respiratory difficulty, decreased reflexes, lethargy, tremors, and in severe cases convulsions.

Section 5 - FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Under normal circumstances there is no risk of an explosion from this product if it is involved in a fire. Fire decomposition products from this product may be toxic if inhaled. Specific hazards include carbon monoxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, organochloric compounds, and sulphur oxides. Take appropriate protective measures. Fire-fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715, 1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

Extinguishing Media: Carbon dioxide, water spray, dry agent, foam.

Neutralising Compounds: Hydrated lime.

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

Autoignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

Section 6 - ACCIDENTAL RELEASE MEASURES

Accidental release: Clear area of all unprotected personnel. Wear chemical resistant clothing buttoned to the neck and wrist and a washable hat, half-face piece respirator with combined dust and gas cartridge and elbow-length PVC or nitrile gloves. Contain spill and absorb with absorbent material such as earth, sand or clay. Stop leak if safe to do so by manoeuvring the container. Decant leaking container into a clean drum, remote from the storage area and label. If the leaking container can be repacked, contact Ensysstex, so that an overdrum and transport for return to a nominated location can be arranged. Toxic to aquatic organisms. Do NOT flush to drains or sewers. Do NOT contaminate streams, rivers or water courses.

Section 7 - HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS 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: Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight. Check packaging - there may be further 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**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Exposure Limits TWA (mg/m³) STEL (mg/m³)

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

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Avoid contact with eyes. Wear safety glasses with side shields (frame goggles).

Hand Protection: Elbow-length PVC or nitrile gloves. Wash hands after use.

Body Protection: Chemical resistant clothing buttoned to the neck and wrist and a washable hat. After each day's use, wash gloves, and contaminated clothing.

Respirator: Wear a half-face piece respirator with combined dust and gas cartridge during preparation and use.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & colour: Cream opaque suspension.

Odour: Mild characteristic odour.

Boiling Point: Approximately 100°C at 100kPa.

Freezing/Melting Point: Approximately 0°C.

Volatiles: Water component.

Vapour Pressure: No data.

Vapour Density: No data.

Specific Gravity: Approx. 1.0.

Water Solubility: Miscible in water.

pH: 7 - 8.

Autoignition temp: Not applicable - does not burn.

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 Ensysstex for advice on shelf life properties.

Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities: No particular incompatibilities.

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - TOXICOLOGICAL INFORMATION

Toxicity for Product: Acute dermal: low, LD50 >2000 mg/kg bw (rabbit),
 Acute inhalation: LC50 (4 hr) >1.7 mg/L (Rat)
 Acute inhalation: LC50 (1 hr, calculated) >6.8 mg/L (Rat)
 Acute skin irritation: skin irritant
 Acute eye irritation: irritating

Skin Sensitisation: Non-sensitising (Guinea pig)

Skin: Low acute dermal toxicity. Low dermal absorption (1 %).

Eye: Will irritate eyes.

Section 12 - ECOLOGICAL INFORMATION

Non-toxic to earthworms. Fipronil has low mobility in soil. Toxic to fish and aquatic organisms. Do NOT apply to areas where surface water is present. Rinse waters and run-off from treated areas MUST be prevented from entering drains or waterways. Do NOT contaminate streams, rivers or waterways with the chemical or used containers.

Rainbow trout (96hr) LC50: 0.248 mg/L
 European carp (96hr) LC50: 0.430 mg/L
 Daphnia magna (48hr) EC50: 0.19 mg/L
 Harmful to honey bees by direct contact.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal: **Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.** Triple or (preferably) pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

Section 14 - Transport Information

ADG Code: This product is NOT classified as Dangerous Goods.
UN Number: 3082

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.