



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME: David Grays Bifenthrin Aqua Termiticide and Insecticide

OTHER NAME: Not Applicable

MANUFACTURERS CODE: 62051

USE: For the protection of structures from subterranean termite damage and for the control of termites and a range of other urban pests, as specified in the directions for use table.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Classified as Hazardous according to criteria of NOHSC Australia.
NOT classified as a Dangerous Good according to the ADG Code.

RISK PHRASES: R620/22- Harmful by inhalation if swallowed

SAFETY PHRASES: S2- Keep out of reach of children
S13- Keep away from food, drink and animal feeding stuffs
S23 – Do not breath spray
S36/37- Wear suitable protective clothing and gloves
S39- Wear eye/face protection

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Bifenthrin	82657-04-3	100g/L
Other ingredients determined not to be hazardous	Mixture	Balance

FIRST AID MEASURES

GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.

SWALLOWED:

Seek medical attention immediately. Do not induce vomiting.

NOTE: Do not give fluids, tablets or induce vomiting if patient is unconscious or convulsing.

EYE:

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention.

SKIN:

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur seek medical attention immediately.

INHALED:

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary.

FIRST AID FACILITIES:

Soap, water

ADVICE TO DOCTOR:

Bifenthrin the active ingredient in this product is a pyrethroid insecticide. Treatment is otherwise symptomatic and supportive.

FIRE FIGHTING MEASURES

SPECIFIC HAZARD: Product is a not flammable.

EXTINGUISHING MEDIA: Foam, CO2 or dry chemical. Soft stream water fog if no alternatives. Contain all run off.

HAZARDOUS DECOMPOSITION PRODUCTS: On burning will emit toxic fumes of Carbon monoxide, carbon dioxide, hydrogen chloride, fluorine and hydrogen fluoride etc.

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Isolate fire area. Evacuate upwind. Wear full protective clothing and self-contained breathing apparatus. Do Not breathe or contact smoke, gasses or vapours generated.

ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE: Spill or leak area should be isolated immediately. Immediately contact police or fire brigade. Keep all unauthorised persons away from the area. Contain spill if safe to do so. (See below)

CONTAINMENT AND CLEAN UP: Contain spill by using absorbent material ie (sand, earth or attapulgate). Cover any open drains with plastic, rubber etc. (See section handling and storage for PPE requirements) Prevent entry into water ways. Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Small spills: If spilt indoors, wash contaminated surfaces with mild bleach solution (sodium hypochlorite).

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Ensure containers are kept closed until using product. Avoid skin and eye contact and breathing vapour.

When handling the product, preparing and using spray wear:

- Chemical resistant overalls with hood, buttoned to the neck.
- Elbow length PVC, neoprene or nitrile gloves.
- Goggles.
- Half faced respirator with suitable filter for organic solvent vapours. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before smoking, eating and drinking.

STORAGE:

Keep out of direct sunlight and provide adequate ventilation. Store the product in the closed original container.

Store in a locked room or place away from children, animals, food, feed stuffs, seed and fertilizer.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

No data available

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

BIOLOGICAL LIMIT: Not relevant

ENGINEERING CONTROLS:

Use only in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length PVC, neoprene or nitrile gloves.
- goggles.
- half faced respirator with combined dust/toxic vapour cartridge. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before smoking, eating and drinking.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White, opaque liquid
ODOUR:	Slight odour
pH:	Not relevant
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not applicable
SOLUBILITY IN WATER:	Product suspended in water
SPECIFIC GRAVITY:	1.04 g/mL
FLASH POINT:	Not applicable, not flammable
FLAMMABILITY LIMITS:	Not flammable
POISONS SCHEDULE:	Product is a schedule 6 Poison.
CORROSIVE HAZARD:	Non corrosive; compatible with stainless steel, fibreglass, and polyethylene containers used in spray tanks and parts.

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal storage conditions
CONDITIONS TO AVOID:	Heat
INCOMPATIBLE MATERIALS:	No particular materials to avoid
HAZARDOUS DECOMPOSITION PRODUCTS:	When the product is heated to high temperatures, the active ingredient will decompose and emit toxic fumes.
HAZARDOUS REACTIONS:	No data available

TOXICOLOGICAL INFORMATION

GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause headaches and allergic reaction with skin contact.

ACUTE

SWALLOWED:

The acute oral toxicity is high. Oral LD50 (rat) 505 mg/kg (Bifenthrin).

EYE:

Not irritating

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD50 (rabbit) >2000mg/kg (Bifenthrin).

INHALED:

Excessive exposure to spray may be harmful. Prolonged exposure to the spray may cause eye and respiratory irritation, dizziness and headaches.

Inhalation LD50 = no data available

CHRONIC:

Data is not available on this formulation;

However, Bifenthrin Technical grade active constituent did not cause teratogenicity or reproductive toxicity.

Tremors were associated with repeated exposure to Bifenthrin in dogs, rats, rabbits and mice.

ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to Aquatic Organisms & Fish

PERSISTENCE AND DEGRADABILITY: The half-life for Bifenthrin is 65 –125 days depending on soil type

MOBILITY: From Koc values bifenthrin is immobile in soil.

DISPOSAL CONSIDERATIONS

Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Do not allow chemical containers, spray or washing's to contaminate drains, sewers, streams, ponds or any waterways.

TRANSPORT INFORMATION

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

MARINE AND AIR TRANSPORT: Product is a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

If transporting by **SEA OR BY AIR** the following Dangerous Goods Classification applies:

UN NUMBER:	3082
CORRECT SHIPPING NAME:	Environmentally Hazardous Substance Liquid, N.O.S. (Contains 10% Bifenthrin)
DANGEROUS GOODS CLASS:	9 Miscellaneous Dangerous Goods
SUB-CLASS:	Not applicable
PACKAGING GROUP:	III
SPECIAL PRECAUTIONS FOR USER:	Avoid extremes of heat
HAZCHEM CODE:	Not applicable

OTHER INFORMATION

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: **Celine Schnell**

DATE: **18.06.08**

NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.