



# DAVID GRAY & CO PTY LIMITED

A.C.N. 008 671 127

2 Rawlinson Street O'Connor PO Box 2084 Palmyra DC  
Western Australia 6961

Ph (08) 9337 4933 Fax (08) 9337 8316

Internet: [www.davidgray.com.au](http://www.davidgray.com.au) (MSDS's & Company Information)

**Emergency Telephone Number (08) 9337 4933**

**(During Office Hours 8am to 4.30pm Monday to Friday)**

Date of Issue: November 2012

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## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION

**PRODUCT NAME:** David Grays Bifenthrin Termite and Insect Treatment

**OTHER NAME:** Not Applicable

**MANUFACTURERS CODE:** 23160

**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

**HAZARD CLASSIFICATION (In accordance with criteria of Work safe Australia):** X<sub>n</sub> – Harmful  
Classified as hazardous according to the criteria of NOHSC.

**RISK PHRASES:** R65- Harmful: May cause lung damage if swallowed

**SAFETY PHRASES:** S2- Keep out of reach of children  
S23 – Do not breath spray  
S24 – Avoid contact with skin

### INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Hydrocarbon Solvent	64742-94-5	562g/L
Bifenthrin	82657-04-3	100g/L
N-Methyl-2-pyrrolidone	872-50-4	50g/L
Other ingredients classified as non hazardous		To 100%

## 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. It is recommended to give a slurry of activated charcoal to absorb the product swallowed.

**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, Activated Charcoal.

**ADVICE TO DOCTOR:**

David Grays Bifenthrin Termiticide & Insecticide contains petroleum type solvents and the benefits of induced vomiting must be weighed against possibility of chemical pneumonia caused by petroleum like solvents.

## FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Carbon Dioxide or Dry chemical

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide

**FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT:** Wear positive pressure self-contained breathing apparatus. Chemical resistant boots, nitrile gloves and chemical resistant overalls.

**HAZCHEM CODE:** Not relevant

## 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 attupulgite). 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:

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 eating and drinking.

### STORAGE:

Keep out of direct sunlight and provide adequate ventilation. Avoid contact with strong acids /caustics.

## 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 eating and drinking.

## PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Clear yellow liquid.
<b>ODOUR:</b>	Slight solvent odour
<b>pH:</b>	Not relevant
<b>VAPOUR PRESSURE:</b>	0.074 kPa solvent, $1.8 \times 10^{-7}$ mm Hg (Bifenthrin)
<b>VAPOUR DENSITY:</b>	Not applicable
<b>BOILING POINT:</b>	Hydrocarbon solvent 178 – 209 deg C
<b>MELTING POINT:</b>	< -20 deg C
<b>SOLUBILITY IN WATER:</b>	emulsifiable
<b>SPECIFIC GRAVITY:</b>	0.95
<b>FLASH POINT:</b>	>66 deg C (PMCC)
<b>FLAMMABILITY LIMITS:</b>	Solvent - Lower 0.9%, Upper 6.0% (v/v in air)
<b>IGNITION TEMPERATURE:</b>	No data available

## STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable at normal storage conditions
<b>CONDITIONS TO AVOID:</b>	Heat
<b>INCOMPATIBLE MATERIALS:</b>	Do not expose to oxidising agents, acids and alkalis
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon Dioxide
<b>HAZARDOUS REACTIONS:</b>	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) 54.5mg/kg (Bifenthrin).

For product Oral LD50 (rat) 545mg/kg

#### EYE:

Moderate eye irritant.

#### 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).

For product LD50 >20000mg/kg.

#### INHALED:

The acute inhalation toxicity is moderate. 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:**

Bifenthrin does not cause generic change or accumulate in the body. Long term carcinogenicity studies of the active ingredient, bifenthrin, on rats and mice showed no increase in tumours.

**ECOLOGICAL INFORMATION**

**ECOTOXICITY:** Toxic to aquatic organisms

**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.

<b>UN NUMBER:</b>	Not applicable
<b>CORRECT SHIPPING NAME:</b>	Not applicable
<b>DANGEROUS GOODS CLASS:</b>	Not applicable
<b>SUB-CLASS:</b>	Not applicable
<b>PACKAGING GROUP:</b>	Not applicable
<b>SPECIAL PRECAUTIONS FOR USER:</b>	Avoid extremes of heat
<b>HAZCHEM CODE:</b>	Not applicable

**REGULATORY INFORMATION**

This product is a schedule 6 poison (S6) by the Uniform Scheduling of Drug and Poisons established under the Therapeutic Goods Act (1989)

<b>OTHER INFORMATION</b>
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**CONTACT POINT**

**TITLE:** Technical Department

**TELEPHONE NUMBER:** (08) 9337 4933

**AUTHORISED:** **Technical Department**

**DATE:** **22/11/12**

**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 however 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.