

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1 Product identifier

**Product name** DAVID GRAYS BIFENTHRIN TERMITICIDE AND INSECTICIDE /  
DAVID GRAYS BIFENTHRIN TERMITE AND INSECT TREATMENT

**Synonym(s)** 23175, 23179, 23170, 23160 - PRODUCT CODE • BIFENTHRIN • BIFENTHRIN TERMITE & INSECT  
TREATMENT • BIFENTHRIN TERMITICIDE AND INSECTICIDE • DAVID GRAYS BIFENTHRIN • TERMITE  
AND INSECT TREATMENT

#### 2 Uses and uses advised against

**Use(s)** TERMITICIDE AND INSECTICIDE

#### Details of the supplier of the product

**Supplier name** DAVID GRAY & CO PTY LIMITED

**Address** 2 Rawlinson St, O'Connor, WA, 6961, AUSTRALIA

**Telephone** (08) 9337 4933

**Fax** (08) 9337 8316

**Email** [general@davidgray.com.au](mailto:general@davidgray.com.au)

**Website** <http://www.davidgray.com.au>

#### 4 Emergency telephone number(s)

**Emergency** (08) 9337 4933 (B/H)

### 2. HAZARDS IDENTIFICATION

#### 1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**GHS classification(s)** Flammable Liquids: Category 4  
Acute Toxicity: Oral: Category 4  
Aspiration Hazard: Category 1  
Aquatic Toxicity (Chronic): Category 1

#### Label elements

**Signal word** DANGER

**Pictogram(s)**



#### Hazard statement(s)

H227 Combustible liquid.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

#### Prevention statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response statement(s)**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use appropriate media for extinction.  
P391 Collect spillage.

**Storage statement(s)**

P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal statement(s)**

P501 Dispose of contents/container in accordance with relevant regulations.

**.3 Other hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS****Substances / Mixtures**

| Ingredient                                  | CAS Number | EC Number | Content   |
|---|------------|-----------|-----------|
| SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC | 64742-94-5 | 265-198-5 | 56.2%     |
| ADDITIVE(S)                                 | -          | -         | Remainder |
| BIFENTHRIN                                  | 82657-04-3 | 617-373-6 | 10%       |
| 1-METHYL-2-PYRROLIDONE                      | 872-50-4   | 212-828-1 | 5%        |

**4. FIRST AID MEASURES****.1 Description of first aid measures**

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Manufacturer states that slurry of activated charcoal be administered.

**First aid facilities** Eye wash facilities and safety shower should be available.

**Most important symptoms and effects, both acute and delayed**

See Section 11 for more detailed information on health effects and symptoms.

**Immediate medical attention and special treatment needed**

Treat symptomatically. Chemical pneumonitis may be caused by induced emesis.

**5. FIRE FIGHTING MEASURES****Extinguishing media**

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

**Special hazards arising from the substance or mixture**

Combustible. May evolve carbon oxides and hydrocarbons when heated to decomposition.

**Advice for firefighters**

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Hazchem code**

•3Z  
•3 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used.  
Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### Environmental precautions

Prevent product from entering drains and waterways.

### Methods of cleaning up

Absorb spill (with sodium carbonate or similar) then sweep up and contain in suitable well labelled packaging and dispose of the product in accordance with label directions. Wash the contaminated surfaces with a mild detergent/water solution.

### Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Ob□

### 2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems. Store as a Class C1 Combustible Liquid (AS1940).

### Specific end use(s)

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure standards

| Ingredient             | Reference | TWA |                   | STEL |                   |
|------------------------|-----------|-----|-------------------|------|-------------------|
|                        |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| 1-Methyl-2-pyrrolidone | SWA (AUS) | 25  | 103               | 75   | 309               |

#### Biological limits

| Ingredient             | Determinant                               | Sampling Time | BEI      |
|------------------------|---|---------------|----------|
| 1-METHYL-2-PYRROLIDONE | 5-hydroxy-N-methyl-2-pyrrolidone in urine | End of shift  | 100 mg/L |

Reference: ACGIH Biological Exposure Indices

### Exposure controls

#### Engineering controls

Avoid inhalation. If using indoors, ensure there is adequate natural ventilation. Increase air flow by opening windows/doors or using mechanical extraction units. Maintain vapour levels below the recommended exposure standard.

#### PPE

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear nitrile or neoprene gloves.  |
| <b>Body</b>        | Wear coveralls.   |
| <b>Respiratory</b> | Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. |



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

|                           |                      |
|---------------------------|----------------------|
| Appearance                | CLEAR YELLOW LIQUID  |
| Odour                     | SLIGHT SOLVENT ODOUR |
| Flammability              | CLASS C1 COMBUSTIBLE |
| Flash point               | > 66°C (cc)          |
| Boiling point             | 178°C to 209°C       |
| Melting point             | < -20°C              |
| Evaporation rate          | NOT AVAILABLE        |
| pH                        | NOT AVAILABLE        |
| Vapour density            | NOT AVAILABLE        |
| Specific gravity          | 0.95                 |
| Solubility (water)        | EMULSIFIES           |
| Vapour pressure           | 0.074 kPa (Solvent)  |
| Upper explosion limit     | 6.0 % (Solvent)      |
| Lower explosion limit     | 0.9 % (Solvent)      |
| Partition coefficient     | NOT AVAILABLE        |
| Autoignition temperature  | NOT AVAILABLE        |
| Decomposition temperature | NOT AVAILABLE        |
| Viscosity                 | NOT AVAILABLE        |
| Explosive properties      | NOT AVAILABLE        |
| Oxidising properties      | NOT AVAILABLE        |
| Odour threshold           | NOT AVAILABLE        |

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## 10. STABILITY AND REACTIVITY

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### Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### Chemical stability

Stable under recommended conditions of storage.

### Possibility of hazardous reactions

Polymerization is not expected to occur.

### Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

### Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on toxicological effects

|                              |   |
|------------------------------|---|
| <b>Health hazard summary</b> | Harmful. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Chronic exposure may result in central nervous system (CNS) damage.  |
| <b>Eye</b>                   | Irritant. Contact may result in irritation, lacrimation, pain and redness.  |
| <b>Inhalation</b>            | Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing and headache. High level exposure may result in CNS stimulation with nervousness, salivation, dizziness, tremors, breathing difficulties (wheezing) and unconsciousness.  |
| <b>Skin</b>                  | Irritant. Contact may result in irritation, stinging sensation, rash and possible numbness. LD50 (rabbit) > 20000 mg/kg.  |
| <b>Ingestion</b>             | Harmful. Ingestion may result in nausea, vomiting, diarrhoea, salivation, breathing difficulties, hyperexcitability, anxiety, lack of coordination and convulsions. Aspiration or inhalation may cause chemical pneumonitis and pulmonary oedema. Oral LD50 (rat) is 545 mg/kg.<br>SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC (64742-94-5)<br>LD50 (oral) > 2000 mg/kg (rat) |

|  |  |
|--|--|
| SOLVENT NAPHTHA (PETROLEUM), HEAVY AROMATIC (64742-94-5) |  |
| LD50 (dermal)  | > 2000 mg/kg (rat)                     |
| LC50 (inhalation)  | > 590 mg/m <sup>3</sup> /4 hours (rat) |
| BIFENTHRIN (82657-04-3)                                  |  |
| LD50 (oral)  | 54.5 mg/kg (rat)                       |
| LD50 (dermal)  | 2 g/kg (rabbit)                        |
| LC50 (inhalation)  | 4.9 mg/l/4 hours (rat)                 |
| 1-METHYL-2-PYRROLIDONE (872-50-4)                        |  |
| LD50 (oral)  | 3500 mg/kg (rabbit); 3914 mg/kg (rat)  |
| LD50 (dermal)  | 8000 mg/kg (rabbit)                    |

## 12. ECOLOGICAL INFORMATION

### Toxicity

Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

The half-life for Bifenthrin is 65 to 125 days depending on the soil type.

### Bioaccumulative potential

No information provided.

### Mobility in soil

The manufacturer advises that Bifenthrin is immobile in soil.

### Other adverse effects

No information provided.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste disposal** Triple rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemical on site. Dispose of empty packaging by wrapping in paper and putting in garbage. Empty containers should not be burned.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



|                             | LAND TRANSPORT (ADG)                                | SEA TRANSPORT (IMDG / IMO)                          | AIR TRANSPORT (IATA / ICAO)                         |
|-----------------------------|---|---|---|
| 14.1 UN Number              | 3082  | 3082  | 3082  |
| 14.2 Proper Shipping Name   | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| 14.3 Transport hazard class | 9   | 9   | 9   |
| 14.4 Packing Group          | III   | III   | III   |

### Environmental hazards

No information provided.

### Special precautions for user

Hazchem code ●3Z

GTEPG  
EMS

9C1  
F-A, S-F

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## 15. REGULATORY INFORMATION

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### Safety, health and environmental regulations/legislation specific for the substance or mixture

|                             |   |  |
|-----------------------------|---|--|
| <b>Poison schedule</b>      | Classified as a Schedule 6 (S6) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).   |  |
| <b>Classifications</b>      | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.<br><br>The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. |  |
| <b>Hazard codes</b>         | N<br>Xn   | Dangerous for the environment<br>Harmful   |
| <b>Risk phrases</b>         | R22<br>R50/53<br>R65  | Harmful if swallowed.<br>Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>Harmful: May cause lung damage if swallowed.  |
| <b>Safety phrases</b>       | S2<br>S23<br>S24<br>S62   | Keep out of reach of children.<br>Do not breathe gas/fumes/vapour/spray (where applicable).<br>Avoid contact with skin.<br>If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. |
| <b>Inventory listing(s)</b> | <b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b><br>All components are listed on AICS, or are exempt.   |  |

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## 16. OTHER INFORMATION

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|                               |  |
|-------------------------------|--|
| <b>Additional information</b> | <p><b>SYNERGISM - ANTAGONISM:</b> Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the Exposure Standard provided for single ingredients should be considered as a guide only and all due care exercised when handling.</p> <p><b>RESPIRATORS:</b> In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.</p> <p><b>PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:</b><br/>The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.</p> <p><b>HEALTH EFFECTS FROM EXPOSURE:</b><br/>It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.</p> |
|-------------------------------|--|

**Abbreviations**

|                   |   |
|-------------------|---|
| ACGIH             | American Conference of Governmental Industrial Hygienists   |
| CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                   |
| CNS               | Central Nervous System  |
| EC No.            | EC No - European Community Number   |
| EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                     |
| GHS               | Globally Harmonized System  |
| GTEPG             | Group Text Emergency Procedure Guide  |
| IARC              | International Agency for Research on Cancer   |
| LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
| LD50              | Lethal Dose, 50% / Median Lethal Dose   |
| mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
| OEL               | Occupational Exposure Limit   |
| pH                | relates to hydrogen ion concentration using a scale of 0 (highly acidic) to 14 (highly alkaline). |
| ppm               | Parts Per Million   |
| STEL              | Short-Term Exposure Limit   |
| STOT-RE           | Specific target organ toxicity (repeated exposure)  |
| STOT-SE           | Specific target organ toxicity (single exposure)  |
| SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                      |
| SWA               | Safe Work Australia   |
| TLV               | Threshold Limit Value   |
| TWA               | Time Weighted Average   |

**Report status**

This document has been compiled by David Gray & Co. Pty Ltd,.

It is based on information concerning the product which has been provided by David Gray & Co. Pty Ltd and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained from David Gray & Co. Pty Ltd

While David Gray & Co. Pty Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, David Gray & Co. Pty Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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