



# DAVID GRAYS CRICKET AND GRASS HOPPER KILLER BAIT SAFETY DATA SHEET

## 1. IDENTIFICATION

**Date of issue:** 30 March 2023  
**Product Name:** David Grays Cricket and Grass Hopper Killer Bait  
**Recommended Use:** Insecticide  
**CAS No.:** 63-25-2  
**Synonyms:** 1-naphthyl methylcarbamate  
**Company:** David Gray & Co. Pty Ltd  
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Western Australia 6163  
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## 2. HAZARD(S) IDENTIFICATION

Category 4 Acute toxicity - oral  
Category 4 Acute toxicity - inhalation  
Category 2B Eye irritation  
Category 1 Specific target organ toxicity (single exposure)  
Category 2 Specific target organ toxicity (repeated exposure)  
Category 1 Aquatic acute toxicity  
Category 1 Aquatic chronic toxicity

GHS label elements

### Label elements:

Hazard pictograms:



Signal word Danger

Hazard statements Harmful if swallowed  
Harmful if inhaled  
Causes eye irritation  
Causes damage to nervous system  
May cause damage to nervous system through prolonged or repeated exposure  
Very toxic to aquatic life  
Very toxic to aquatic life with long lasting effects

### Precautionary statements

**Prevention** Wash thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wear eye protection/face protection (see Section 8)  
Wash face and hands thoroughly after handling  
Do not eat, drink or smoke when using this product  
Use only outdoors or in well-ventilated area  
Prevent from entering into sewers, waterways and/or groundwater. See Section 12, Ecological Information

<b>Response</b>	<p><b>If swallowed:</b> Immediately call a poison control center/doctor. Rinse mouth.</p> <p><b>If inhaled:</b> Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.</p> <p><b>If in eyes:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.</p> <p><b>If exposed:</b> Call poison center/doctor. Specific treatment see Note to Physician, Section 4.</p>
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.
<b>Disposal</b>	Disposal of contents/container must be in accordance with your local or area regulatory authorities. Do not reuse this container.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	By %w/w.	OSHA PEL:	ACGIH TLV:
Active Ingredient:			
Carbaryl (1-naphthyl N-methylcarbamate)	1.8	N/Av	5 mg/m <sup>3</sup>
Inert Ingredients:	98.0	N/A	N/A

### 4. FIRST AID MEASURES

**General information** In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person or a person with cramps.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes for at least 10 minutes .. Obtain medical attention without delay, preferably from an ophthalmologist

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water then have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Have product label with you when calling a poison control center or doctor.

**Skin Contact:** Immediately flush skin with water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Destroy contaminated leather items such as shoes, belts, and watchbands. If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician:** This product contains a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing respiratory depression. Decontamination procedures such as whole body washing, gastric lavage and administration of activated charcoal are often required. If symptoms are present, administer atropine sulfate in large doses as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinization appear. Maintain full atropinization until all organophosphate is metabolized. Pralidoxime chloride (2-PAM) may be administered as an adjunct to, but not a substitute for atropine. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Very close supervision of the patient is indicated for at least 48 hours, depending on the severity of poisoning.

### 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Thermal decomposition can lead to release of irritating gases and vapors.

**Flammability classification (OSHA 29 CFR 1910.1200):** N/A

Flash point: NA

**Lower flammable limit ( by volume):** N/Av

**Upper flammable limit ( by volume):** N/Av

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Evacuate the area and fight the fire from upwind at a safe distance to avoid hazardous smoke or decomposition products. Dike and collect fire-extinguishing water to prevent environmental damage and excessive waste runoff.

**Firefighting media:** Use carbon dioxide or dry chemical for small fires. Use alcohol foam, polymer foam or water spray for large fires. Do not use water jet, as this may spread burning material. Minimize the use of water to avoid environmental contamination. Contain all runoff.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Use full face shield and operate in positive pressure mode. Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, trace amounts of methyl isocyanate, irritating fumes and smoke.

<b>(NFPA):</b>	<b>Health:</b>	<b>Flammability:</b>	<b>Reactivity:</b>
	2	0	0

## 6. ACCIDENTAL RELEASE MEASURES

### Steps to be taken if Material is Released or Spilled:

Sweep as much material as possible, keeping dust to a minimum and place in an approved chemical waste container. Wash the spill area with water containing a strong detergent, absorb with earth, sand or absorbent material and sweep up and place in approved chemical waste container. See Section 13, Disposal Considerations, for additional information.

### Personal Precautions:

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**Environmental Precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

## 7. HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

### Precautions for Safe Handling:

**Handling:** Avoid container breakage. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds. Wash thoroughly after handling. Avoid breathing dust. Use with adequate ventilation. Keep away from heat, sparks and flame Do not eat, drink or smoke when using this product.

### Conditions for Safe Storage, Including any Incompatibilities:

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** TLV Carbaryl 5 mg/m<sup>3</sup>

### Personal Protection:

**Eye/Face Protection:** Wear safety glasses with side shields or chemical splash goggles to prevent dust from entering the eyes. If using a full face shield, always use safety glasses or goggles along with the face shield to ensure adequate protection of the eyes.

**Skin Protection:** Wear long-sleeved shirt and long pants and shoes plus socks. Safety shower should be located in immediate work area. Remove contaminated clothing immediately after handling this product, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. When handling in enclosed areas, when large quantities of dusts are generated or prolonged exposure is possible in excess of the TLV, use a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

#### **Engineering Controls:**

**Ventilation:** When handling this product proper ventilation is required to maintain exposure below the TLV. Ventilate all transport vehicles prior to unloading. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Dry Pellets
Color:	Pale Brown
Odor:	Slight characteristic odour
Flash Point:	N/A
Vapor Pressure (mmHg):	N/A
Boiling Point:	N/A
Vapor Density (air = 1):	N/A
Bulk Density (H <sub>2</sub> O = 1):	N/A
Freezing Point:	N/A
Solubility in water (wt. %):	N/A
pH:	N/A
Viscosity:	N/A

### **10. STABILITY AND REACTIVITY**

Stability/Instability:	Thermally stable at typical use temperatures and in closed containers.
Conditions to Avoid:	Avoid heat of open flame. Avoid high temperatures above 54.4 °C, Avoid
Incompatible Materials:	contact with: Strong acids. Strong bases.
Hazardous Polymerization:	Will not occur
Thermal Decomposition:	Decomposition products can include: Carbon oxides, nitrogen oxides, trace amounts of methyl isocyanate.

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity data from studies conducted on a similar, but not identical, granular formulation containing a slightly higher percentage of active ingredient carbaryl. The non-acute information pertains to technical grade carbaryl.

#### **Acute Toxicity**

Ingestion:	LD50, (rat): 3310 mg/kg
Dermal:	LD50, (rabbit): >2,000 mg/kg
Inhalation:	LC50, (4h), (rat): 4.9 mg/l
Eye Irritation (rabbit):	Mild irritation.
Skin Irritation (rabbit):	No irritation.
Sensitization Skin:	Non-sensitizer (Guinea Pigs).
Chronic Toxicity (Carbaryl):	Reversible cholinesterase inhibition occurred in chronic toxicity studies in rates and dogs. The principal organs affected from high doses of carbaryl included urinary bladder, thyroid, kidneys and liver.
Carcinogenicity (Carbaryl):	Listed as Likely to be carcinogenic in humans by EPA. Not listed as carcinogenic by AC GIH, NTP, IARC or OSHA.
Teratogenicity, mutagenicity, and other reproductive effects (Carbaryl):	None known.

## 12. ECOLOGICAL INFORMATION

Based on active ingredient Carbaryl.

Environmental Fate:	Not persistent in soil - quickly degrades in aerobic soil, more slowly in anaerobic soil. Degraded in soil through hydrolysis, photolysis and by microorganisms.
Ecotoxicity:	Moderate to highly toxic to fish. Extremely toxic to aquatic and estuarine invertebrates. Highly toxic to bees.
Aquatic Toxicity:	Rainbow Trout: 96 hour LC50: (4.3 mg/L) Bluegill 96 hour LC50: (6.76 mg/L) Daphnia magna 48 hour EC50: (0.00067 mg/L)
Bees:	LC50: (1.54 - 26.5 j.lg/bee)
Bird Toxicity:	Mallard Duck 8-day LD50: > 5000 mg/kg Bobwhite Quail 8-day LD50: > 5000 mg/kg

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with waterways, drains, and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Contaminated Packaging:** Do not reuse container. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

Not classified as Dangerous Goods when on Land.

Sea:  
UN-3077, Environmentally Hazardous Substance, Solid, N.O.S., (Carbaryl), 9, PG-III, Marine Pollutant  
This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material

## 15. REGULATORY INFORMATION

Refer to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule for more information on carbaryl.

## 16. OTHER INFORMATION

Hazard and precautionary statements according to classification under GHS (Globally Harmonised System of Classification and Labelling)

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 SDS.

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