



DAVID GRAY & CO. PTY LIMITED  
2 Rawlinson Street O'CONNOR WA 6163  
PO BOX 2084 PALMYRA DC WA 6961  
Ph: (08) 9337 4933 Fax: (08) 9337 8316  
email: general@davidgray.com.au web: www.davidgray.com.au

# MATERIAL SAFETY DATA SHEET

Product Name **GRO NATURAL DERRIS DUST INSECTICIDE**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** DAVID GRAY & CO PTY LIMITED  
**Address** 2 Rawlinson Street, O'Connor WA, 6163, AUSTRALIA  
**Telephone** (08) 9337 4933  
**Fax** (08) 9337 8316  
**Emergency** (08) 9337 4933 (B/H)  
**Email / Web** www.davidgray.com.au

**Synonyms** DAVID GRAYS GRO NATURAL DERRIS DUST INSECTICIDE, DERRIS DUST INSECTICIDE, PRODUCT CODE: 8051 (12X500G).

**Uses** INSECTICIDE, PESTICIDE, CONTROL OF APHIDS & CATERPILLARS.

## 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA  
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ROTENONE	C23-H22-O6	0.5%	83-79-4
INERT FILLERS		99.5%	Not Available

## 4. FIRST AID MEASURES

- Eye** Flush gently with running water. Seek medical attention if irritation persists.
- Inhalation** If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
- Skin** Gently flush affected areas with water. Seek medical attention if irritation develops.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.
- Advice To Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable. No fire or explosion hazard exists.

**Fire and Explosion** Non flammable. No fire or explosion hazard exists.

**Extinguishing** Non flammable.

Colour  
Rating  
**AMBER**



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## 5. FIRE FIGHTING MEASURES cont.

Hazchem Code None Allocated

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt (bulk), contact emergency services if appropriate. Wear dust-proof goggles, PVC/rubber gloves, a Class P1 (Particulate) respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.

## 7. HANDLING AND STORAGE

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

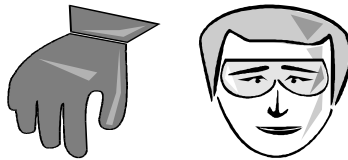
**Storage** Store in cool, dry, well ventilated area, out of direct sunlight and out of the reach of children, removed from oxidising agents, alkalis and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation** Ensure adequate natural ventilation. Maintain dust levels below the recommended exposure standard.

**Exposure Standards** ROTENONE (83-79-4)  
ES-TWA : 5 mg/m<sup>3</sup>  
WES-TWA : 5 mg/m<sup>3</sup>

**PPE** Wear dust-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** WHITE TO OFF-WHITE POWDER  
**Odour:** CHARACTERISTIC ODOUR  
**pH:** NOT AVAILABLE  
**Vapour Pressure:** NOT AVAILABLE  
**Vapour Density:** NOT AVAILABLE  
**Boiling Point:** NOT AVAILABLE  
**Melting Point:** NOT AVAILABLE  
**Evaporation Rate:** NOT AVAILABLE  
**Solubility (water):** INSOLUBLE

Colour  
Rating  
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### 9. PHYSICAL AND CHEMICAL PROPERTIES cont.

**Specific Gravity:** NOT AVAILABLE  
**% Volatiles:** NOT AVAILABLE  
**Flammability:** NON FLAMMABLE  
**Flash Point:** NOT RELEVANT  
**Upper Explosion Limit:** NOT RELEVANT  
**Lower Explosion Limit:** NOT RELEVANT  
**Autoignition Temperature:** NOT AVAILABLE

### 10. STABILITY AND REACTIVITY

**Reactivity** Incompatible with oxidising agents (eg. hypochlorites, peroxides) and alkalis (eg. hydroxides).

**Decomposition Products** May evolve toxic gases if heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Low to moderate toxicity. This product has the potential to cause adverse health effects with chronic over exposure. Use safe work practices to avoid eye or skin contact and over exposure via inhalation. Chronic over exposure may cause liver and kidney damage. No adverse health effects are expected when the product is used in accordance with label directions.

**Eye** Low to moderate irritant. Exposure may result in irritation, pain and redness.

**Inhalation** Low to moderate toxicity. Over exposure to dust may result in mucous membrane irritation of the nose and throat with coughing.

**Skin** Low irritant. Prolonged and repeated exposure to dust may result in irritation and dermatitis.

**Ingestion** Low to moderate toxicity. Ingestion may result in nausea, vomiting, gastrointestinal irritation and diarrhoea. The oral LD50 (rat) is > 26400 mg/kg.

**Toxicity Data** ROTENONE (83-79-4)  
LD50 (Skin) : 1 g/kg (rabbit)  
LD50 (Ingestion) : 2.8 mg/kg (mouse)

### 12. ECOLOGICAL INFORMATION

**Environment** Rotenone is highly toxic to fish and has a low toxicity to pets and livestock. It does not bioaccumulate in animal systems. In soil, rotenone is readily degraded by hydrolysis and microbial action. Rotenone degradation is highly accelerated in alkaline salts. This compound will degrade rapidly when exposed to direct sunlight.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Ensure product is covered with moist soil to prevent dust generation and dispose of to approved Council landfill. Contact the manufacturer if additional information is required.

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### 13. DISPOSAL CONSIDERATIONS cont.

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

### 14. TRANSPORT INFORMATION

**Transport** Not classified as a Dangerous Good according to the Australian Code for the transport of Dangerous Goods by Road and Rail.

**UN Number** None Allocated

**DG Class** None Allocated

**Subsidiary Risk(s)** None Allocated

**Packing Group** None Allocated

**Hazchem Code** None Allocated

### 15. REGULATORY INFORMATION

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**Poison Schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

### 16. OTHER INFORMATION

**Additional Information** RESPIRATORS: 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.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

COLOUR RATING SYSTEM: Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert 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.

Colour  
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### 16. OTHER INFORMATION cont.

#### HEALTH EFFECTS FROM EXPOSURE:

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 Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### ABBREVIATIONS:

mg/m<sup>3</sup> - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

**Report Reviewed** 1st October 2005

**Date Printed** 1st October 2005

**Report Status** Chem Alert reports are compiled as an independent source of information by RMT's scientific department. The information is based on the latest chemical and toxicological research, and in compliance with relevant standards, guidance notes and legislation (where applicable). The Chem Alert report is not intended as a replacement to the manufacturer's original MSDS that is provided to Chem Alert subscribers for convenience. In many instances, Chem Alert reports are compiled on behalf of manufacturers, in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

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Colour  
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**AMBER**