



# 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

Emergency Telephone Number (08) 9337 4933 (During Office Hours)

Date of Issue: March 2000

Page 1 of 5

## MATERIAL SAFETY DATA SHEET

### IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

**PRODUCT NAME:** Systemic Insecticide / Disulfoton 50

**OTHER NAME:** Not Relevant  
**MANUFACTURERS CODE:** 11246 (300g), 28101 (10kg), 28020 (25kg)  
**PROPER SHIPPING NAME (ADG Code):** Pesticides Organophosphorus, Solid, Toxic, (Disulfoton)  
**UN NUMBER:** 2783  
**DANGEROUS GOODS CLASS:** 6.1  
**SUBSIDIARY-RISK:** None allocated  
**PACKING GROUP:** III  
**HAZCHEM CODE:** 2X  
**POISONS SCHEDULE:** S6 (Poison)  
**USE:** For control of sucking insects such as aphids and thrips on ornamentals, vegetables and flowers in the home garden.

### PHYSICAL DESCRIPTION / PROPERTIES

**APPEARANCE:** Pale brown granules with a pungent sulphurous smell  
**MELTING POINT:** Not applicable  
**BOILING POINT:** 128°C (Disulfoton)  
**VAPOUR PRESSURE:** 24 mPa (Disulfoton)  
**DENSITY:** Not applicable  
**FLASH POINT:** Not applicable  
**FLAMMABILITY LIMITS:** Not applicable  
**SOLUBILITY IN WATER:** Not soluble  
**CORROSIVENESS:** Not corrosive  
**OTHER PROPERTIES:**

### INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Disulfoton	298-04-4	5%w/w
Other inerts determined to be non-hazardous		95%w/w

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

**HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia):** Tx – Toxic

**RISK PHRASES:** R24/25 – Toxic in contact with skin and if swallowed.

**SAFETY PHRASES:** S28 – After contact with skin wash with plenty of soap and water  
S36/37 – Wear suitable protective gloves & clothing.  
S45 – In case of accident or if you feel unwell, contact a doctor or Poisons Information centre immediately. National Poisons Information Centre – 131 126

### GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause organophosphorus cholinesterase inhibition. Poisoning symptoms include headaches, dizziness, nausea, diarrhoea, incoordination, muscle twitching, tremors, abdominal cramps, tightness in chest, sweating, blurred vision, salivation, excessive urination and convulsions.

### ACUTE

#### SWALLOWED:

The acute oral toxicity is high. Oral LD50 (rat) 4mg/kg (Disulfoton)  
For product oral LD50 (rat) 80mg/kg

#### EYE:

Moderate eye irritant

#### SKIN:

The acute dermal toxicity is moderate, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD50 (rat) 10/mg/kg (Disulfoton).  
For product LD50 (rat) 200mg/kg.

#### INHALED:

The acute inhalation toxicity is high. Excessive exposure to dust may be harmful. Prolonged exposure to the dust may cause eye and respiratory irritations, dizziness and headaches. Dermal LD50 (rat) = 0.3mg/L (4 hour ) (Disulfoton).

#### CHRONIC:

Disulfoton may cause dermatitis. There is also some evidence that mutagenicity may exist from Disulfoton.

### FIRST AID

#### GENERAL:

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

#### SWALLOWED:

Seek medical immediately. Induce vomiting preferably using Ipecac Syrup APF.

**NOTE:** Do not give fluids or 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 if symptoms occur.

**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. Seek medical attention if symptoms occur.

**FIRST AID FACILITIES:**

Soap, water, Ipecac Syrup APF

**ADVICE TO DOCTOR:**

Disulfoton is a cholinesterase inhibitor. Preferred antidote: atropine by injection or atrovent/ipratropium by airway puff.

## PRECAUTIONS FOR USE

**EXPOSURE STANDARDS:**

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Disulfoton – 0.1mg/m<sup>3</sup>

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.

**ENGINEERING CONTROLS:**

Use only in a well ventilated area (external use only)

**PERSONAL PROTECTION:**

When handling the product use gloves. A dust mask and eye protection is also recommended. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

**FLAMMABILITY:**

Not flammable

## SAFE HANDLING INFORMATION

### STORAGE

Store product in original container only in a locked, well ventilated area, out of direct sunlight and out of the reach of children. Keep away from foodstuffs.

### TRANSPORT

Product is classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**CORRECT SHIPPING NAME:** Pesticides Organophosphorus, Solid, Toxic, (Disulfoton)

**UN NUMBER:** 2783

**DANGEROUS GOODS CLASS:** 6.1

**SUB-CLASS:** None allocated

**PACKING GROUP:** III

### SPILLAGE

Wear appropriate clothing while cleaning up spill (see Personal Protection). Prevent entry into drainage systems, waterways, rivers, etc. Sweep up the material. If product spilt indoors, wash contaminated surfaces with a mild bleach solution (sodium hypochlorite)

### DISPOSAL

Disposal of contaminated material must be done in accordance with State and/or Local regulations. Triple rinse containers with water and add rinsings to tank mix. Destroy empty containers by breaking, crushing or puncturing them. Dispose of the empty containers at a local authority landfill. Do not burn empty containers or product. Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.

### FIRE/EXPLOSION HAZARD

Product not flammable or explosive

### HAZARDOUS DECOMPOSITION PRODUCTS:

If involved in a fire or exposed to extreme temperatures, oxides of nitrogen and oxides of sulphur may be formed.

### FIRE FIGHTING EQUIPMENT:

Foam, carbon dioxide (CO<sub>2</sub>), or dry chemical extinguishers may be used. Run-off must be contained.

**OTHER INFORMATION**

**ECOTOXICITY DATA:**

Disulfoton is very toxic to birds, fish, and bees

**ENVIRONMENTAL FATE:**

In soil, Disulfoton is readily degraded by hydrolysis. The half life of Disulfoton may range from between seven and twenty eight days, depending on climatic conditions and soil type.

**CONTACT POINT**

**TITLE:** Technical Department

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

**AUTHORISED:**

**DATE:**

**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.