



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME:	DAVID GRAYS FENITROTHION 1000
OTHER NAME:	Sumithion
MANUFACTURERS CODE:	20L - 11354
USE:	For control of Locusts, Sitona Weevil and Blackheaded Pasture Cockchafer and certain other pests in crops and pastures as specified in the directions for use table.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia): Xn Harmful Xi Irritant
Classified as HAZARDOUS according to the criteria of NOHSC.

RISK PHRASES:

R20/21/R22 – Harmful if by inhalation, in contact with skin and if swallowed

R38 – Irritating to skin

R41 – Risk of serious eye damage.

R50/53 – Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R65 – Harmful: May cause lung damage if swallowed

R66 – Repeated exposure may cause skin dryness or cracking

R67 – Vapours may cause drowsiness and dizziness

R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES:

S2 – Keep out of reach of children

S16 – Keep away from sources of ignition – No smoking

S23 – Do not breathe vapour

S24/25 – Avoid contact with skin and eyes

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection

S38 – In case of insufficient ventilation, wear suitable respiratory equipment.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

S62 – If swallowed, do not induce vomiting: seek medical advice immediately and show container or label.

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Fenitrothion	122-14-5	1000g/L
Solvent Naptha (petroleum) heavy aromatic	64742-94-5	97.3g/L
Butanol	71-36-3	≤ 1%
Ethanol	64-17-5	≤ 1%
Methanol	67-56-1	≤ 1%
ingredients determined to be non-hazardous		To 100%

FIRST AID MEASURES

GENERAL:

In every case of suspected poisoning, contact a doctor or a Poisons Information Centre immediately. (131126)

SWALLOWED:

Seek medical attention immediately. Do not induce vomiting.

If more than 15 minutes from medical assistance, give one atropine tablet every 5 minutes until dryness of mouth occurs then seek medical attention immediately. **NOTE:** Do not give fluids/tablets if patient is unconscious or convulsing. If vomiting occurs spontaneously, keep head below hips to avoid aspiration.

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. Do not scrub (abrade) skin.

INHALED:

Immediately remove patient to fresh air. Remove any contaminated clothing and loosen tight clothing. Monitor patient and keep them warm. Seek medical attention if effects persist.

FIRST AID FACILITIES:

Soap , water, eyewash, atropine tablets

ADVICE TO DOCTOR:

Treat symptomatically. Fenitrothion is an anticholinesterase compound. Atropine is the antidote. Product contains petroleum solvents which may cause lung damage if aspirated. Can cause corneal burns in the eye.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, Dry Chemical or Carbon Dioxide for small fires.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulphur, carbon, nitrogen and phosphorus.

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Full protective clothing and self contained breathing apparatus

HAZCHEM CODE: 2X

ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE: Spill or leak area should be isolated immediately. Advise emergency services if required (FESA). 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 attapulgate). Cover any open drains with plastic, rubber etc. (See section handling and storage for PPE requirements). Do not allow entry into waterways. Collect (shovel or sweep) absorbent material into sealable steel or plastic containers, clearly labelled. To neutralise contaminated surfaces cover with lime or soda ash then sweep up and contain. Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Small spills: If spilt indoors, once absorbed and removed, wash contaminated surface with a mild bleach solution

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Avoid contact of the product with hands, skin, eyes and avoid breathing spray mist. Do not allow the product or spray mist to enter the mouth.

Wash hands, face and arms immediately after use and before eating, drinking, smoking or going to the toilet.

Read the label thoroughly and wear the recommended personal protective equipment

STORAGE:

Store in a secure location well out of reach of children. Keep cool out of direct sunlight and provide adequate ventilation. Store away from oxidising agents, foodstuffs, sources of ignition. Keep in original container only and check regularly for leakage.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Not assigned by NOHSC

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 in accordance with label directions

PERSONAL PROTECTIVE EQUIPMENT:

For maximum protection, when handling the product, preparing and using spray, we recommend the following to be worn:

- overalls or long sleeved clothing and pants, covered footwear and a washable hat
- rubber gloves
- eye goggles
- half faced respirator with suitable filter for organic vapours and particulate matter.

Remove contaminated clothing immediately and wash thoroughly (separate from other clothing) after each days use.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark Yellow/Brown Liquid
ODOUR:	Characteristic
pH:	Not Available
VAPOUR PRESSURE:	1.37x10 ⁻⁴ mmHg at 20C (Fenitrothion)
VAPOUR DENSITY:	Not available for mixture
BOILING POINT:	140 – 145°C (Fenitrothion)
MELTING POINT:	Not available
SOLUBILITY IN WATER:	Not soluble - emulsifies
SPECIFIC GRAVITY:	1.25
FLASH POINT:	23°C
FLAMMABILITY LIMITS:	Not available
IGNITION TEMPERATURE:	Not available for mixture

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal storage conditions
CONDITIONS TO AVOID:	High temperatures
INCOMPATIBLE MATERIALS:	Oxidising and corrosive materials
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of sulphur, nitrogen carbon and phosphorus
HAZARDOUS REACTIONS:	No data available

TOXICOLOGICAL INFORMATION

GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions.

ACUTE

SWALLOWED:

The acute oral toxicity is medium. Oral LD50 (male rat) 1700 mg/kg/bw

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is high. Estimated dermal LD50 (rate male) 800 mg/kg/bw.

INHALED:

Inhalation LD50 4hr (rat) = >2200 mg/m³

CHRONIC:

Continued exposure may have a cumulative poisoning affect.

ECOLOGICAL INFORMATION

ECOTOXICITY: Fenitrothion is highly toxic to birds, fish and bees and moderately toxic to pets and livestock. Fenitrothion does not bioaccumulate in animal systems.

PERSISTENCE AND DEGRADABILITY: In soil Fenitrothion is readily degraded by hydrolysis and microbial action. The half-life of fenitrothion may range between four and one hundred and sixty days, depending on climatic conditions and soil types.

DISPOSAL CONSIDERATIONS

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 washing's to contaminate drains, sewers, streams, ponds or any waterway.

TRANSPORT INFORMATION

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

UN NUMBER: 3017

CORRECT SHIPPING NAME: Organophosphorus Pesticide, Liquid, Toxic, Flammable(Fenitrothion)

DANGEROUS GOODS CLASS: 6.1 Toxic

SUB-CLASS: 3 Flammable

PACKAGING GROUP: III

HAZCHEM CODE: 2X

REGULATORY INFORMATION

Product is scheduled as an S6 Poison

OTHER INFORMATION

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: **Celine Schnell**

DATE: 11 January 2011

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 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 alter this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours, or via e-mail <mailto:general@davidgray.com.au>