



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME: Lawn Beetle & Grubkiller Insecticide

OTHER NAME: Not relevant

MANUFACTURERS CODE: 07342 (500mL)

USE: The control of lawn beetles and grubs as directed on the product label

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia): X_n – Harmful
Classified as hazardous according to the criteria of NOHSC.

RISK PHRASES: R21/22 - Harmful in contact with skin and if swallowed

SAFETY PHRASES: S1/2 - Keep locked up and out of reach of children
S23 - Do not breathe spray
S28 – Avoid contact with skin wash immediately with plenty of water
S36/37 – Wear suitable protective clothing and eye protection

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Aromatic hydrocarbon solvent	64742-94-5	>60%
Chlorpyrifos	2921-88-2	50g/L
Other ingredients classified as non hazardous	-	<10%

FIRST AID MEASURES

GENERAL:

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

SWALLOWED:

Seek medical attention immediately. Do not induce vomiting. It is recommended to give a slurry of activated charcoal to absorb the product swallowed.

NOTE: Do not give fluids, 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.

SKIN:

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur then seek medical attention immediately.

INHALED:

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary.

FIRST AID FACILITIES:

Soap, water, Activated Charcoal, Atropine tablets.

ADVICE TO DOCTOR:

Chlorpyrifos is a cholinesterase inhibitor. Preferred antidote: atropine by injection or atrovent/ipratropium by airway puff. David Grays Lawn beetle & Grubkiller contains petroleum type solvents and the benefits of induced vomiting must be weighed against possibility of chemical pneumonia.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray or foam

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Sulphur, Nitrogen and Phosphorus

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Wear positive pressure self-contained breathing apparatus. Chemical resistant boots, nitrile gloves.

HAZCHEM CODE: Not applicable

ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE:

Spill or leak area should be isolated immediately. Immediately contact police or fire brigade. 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 attupulgite). Cover any open drains with plastic, rubber etc. (See section handling and storage for PPE requirements) Prevent entry into water ways. Disposal of contaminated material must be done in accordance with State and/or Local regulations. .

Small spills :If spilt indoors, wash contaminated surfaces with mild bleach solution (sodium hypochlorite).

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

When handling the product, preparing and using spray wear:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length neoprene or nitrile gloves.
- goggles.
- half faced respirator with suitable filter for organic solvent vapours. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

STORAGE:

Keep out of direct sunlight and provide adequate ventilation. Avoid contact with strong acids /caustics and amines.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Chlorpyrifos - 0.2mg/m³

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.

BIOLOGICAL LIMIT VALUE:

80% of an individuals baseline

ENGINEERING CONTROLS:

Use only in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length neoprene or nitrile gloves.
- goggles.
- half faced respirator with suitable filter for organic solvent vapours.
- Chemical resistant boots

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear yellow liquid
ODOUR:	Slight mercaptan
pH:	Not relevant
VAPOUR PRESSURE:	0.074 kPa solvent, 2.5×10^{-6} kPa chlorpyrifos
VAPOUR DENSITY:	No data available
BOILING POINT:	Hydrocarbon solvent 178 – 209 deg C
MELTING POINT:	< -20 deg C
SOLUBILITY IN WATER:	emulsifiable
SPECIFIC GRAVITY:	0.92
FLASH POINT:	>66 deg C (PMCC)
FLAMMABILITY LIMITS:	Solvent - Lower 0.9%, Upper 6.0% (v/v in air)
IGNITION TEMPERATURE:	No data available

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal storage conditions
CONDITIONS TO AVOID:	Heat
INCOMPATIBLE MATERIALS:	Strong acids/caustics and amines
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Sulphur, Nitrogen and Phosphorus
HAZARDOUS REACTIONS:	Decomposition at 160°C

TOXICOLOGICAL INFORMATION**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 moderate for this product. For product Oral LD50 (rat) 2500mg/kg

Oral LD50 (rat) 135mg/kg (Chlorpyrifos).

Symptoms of minor exposure included headache diarrhoea and dizziness. For severe exposure incoordination, muscle twitching, coma and death.

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. For product LD50 (rat) 37000mg/kg.

Dermal LD50 (rat) 2000mg/kg (Chlorpyrifos).

INHALED:

The acute inhalation toxicity is low. Excessive exposure to vapour may be harmful. Prolonged exposure to the vapor may cause eye and respiratory irritation, dizziness and headaches.

Inhalation LD50 (rat) = >0.2 mg/m³ (4 hours) (Chlorpyrifos).

CHRONIC:

Chlorpyrifos does not cause generic change or accumulate in the body. Not classified as a carcinogen.

ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic organisms

PERSISTENCE AND DEGRADABILITY: The half-life of chlorpyrifos @ 20°C is 53 days @ pH 7.4

MOBILITY: Data indicate that chlorpyrifos has a low mobility rate in soil

DISPOSAL CONSIDERATIONS

Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Dispose of empty containers by triple rinsing,, placing in plastic bag and putting in garbage.

Do not allow chemical containers, spray or washing's to contaminate drains, sewers, streams, ponds or any waterways.

TRANSPORT INFORMATION

Product is non-regulated in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

UN NUMBER:	Not Applicable
CORRECT SHIPPING NAME:	Not Applicable.
DANGEROUS GOODS CLASS:	Not Applicable
SUB-CLASS:	Not Applicable
PACKAGING GROUP:	Not Applicable
SPECIAL PRECAUTIONS FOR USER:	Avoid extremes of heat
HAZCHEM CODE:	Not Applicable

REGULATORY INFORMATION

This product is a schedule 5 poison (S5) by the Uniform Scheduling of Drug and Poisons established under the Therapeutic Goods Act (1989)

OTHER INFORMATION

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED:

DATE:

NOTICE:

This Material Safety Data Sheet has been developed according to relevant 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.