



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

PRODUCT NAME: David Grays Triclopyr 600 Herbicide

PROPER SHIPPING NAME (ADG Code): Not applicable
UN NUMBER: None allocated
SUSDP Classification: S6
Risk phrases: S22 Harmful if swallowed
Safety phrases: **S20/21 When using do not eat or drink/smoke**
S24/25 Avoid contact with skin/eyes
S26/35 Do not empty into drains / Dispose of material and container in a safe way

POISONS SCHEDULE: S6 Poison
USE: Control of aphids, mites, scales, cabbage moth & loopers on plants as per the directions for use.

PHYSICAL DESCRIPTION / PROPERTIES

APPEARANCE: Yellowish orange liquid.
MELTING POINT: Not determined for mixture
BOILING POINT: Not determined for mixture
VAPOUR PRESSURE: Not determined for mixture
SPECIFIC GRAVITY: 1.03 – 1.06
FLASH POINT: Unknown
FLAMMABILITY LIMITS: Unknown
SOLUBILITY IN WATER: Form an emulsion in water

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Triclopyr butoxyethanol ester	64700-56-7	600g/L
Hydrocarbon solvent	8008-20-6	20 -27 g/L
Ingredients determined to be non hazardous	-	To 100%

HEALTH HAZARD INFORMATION

GENERAL:

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:

Triclopyr is toxic to mammals and pure Triclopyr has a oral toxicity of LD₅₀ oral rat 630 – 729 mg/kg. A value of 0.5 mg/kg/day and ADI is set at 0.005 mg/kg/day has been set for human. If aspirated (concentrate enters lungs while vomiting) may cause lung damage due to chemical pneumonia caused by petroleum like solvents.

EYE:

Product is an eye irritant.

SKIN:

Triclopyr is of moderate dermal toxicity. LD₅₀ dermal rat >2000mg/kg. Repeated skin contact may cause allergic reactions or dermatitis from the hydrocarbon solvent contained within the formulation.

INHALED:

The acute inhalation may cause irritation.

CHRONIC:

Repeated exposure may cause cholinesterase inhibition.

Avoid prolonged or repeated skin contact as the solvent in the product may cause dermatitis.

FIRST AID

GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately (Ph 131 126).

SWALLOWED:

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

EYE:

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention immediately.

SKIN:

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

INHALED:

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary. If symptoms of poisoning occur, seek medical assistance immediately.

FIRST AID FACILITIES:

Soap, water, Activated charcoal, Atropine tablets.

ADVICE TO DOCTOR:

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

PRECAUTIONS FOR USE

EXPOSURE STANDARDS:

Use assisted ventilation in enclosed spaces, if needed, especially storage areas.

ENGINEERING CONTROLS:

Prepare spray in a well-ventilated area away from ignition sources. Use only in a well ventilated area. Not recommended for indoor use.

PERSONAL PROTECTION:

When handling the concentrate, preparing and using spray wear chemical resistant overalls with hood (or a washable hat) buttoned to the neck and wrists, elbow length PVC neoprene or nitrile gloves, face shield
Remove contaminated clothing immediately after use and wash separately and thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

FLAMMABILITY:

Product is not classified as flammable, however is combustible and will burn if involved in a fire.

SAFE HANDLING INFORMATION

STORAGE

Store closed in the original container, in a cool, well dry place out of direct sunlight and out of the reach of children. Do not store prepared spray. Only mix what is required. Segregate from other classes of dangerous goods in accordance with local government regulations

TRANSPORT

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SPILLAGE

Wear appropriate clothing while cleaning up spill (see Personal Protection). Extinguish any ignition sources. Prevent entry into drainage systems, waterways, rivers, etc. Apply absorbent material such as sand, earth or attapulgite to contain the spill. Sweep up the material when absorption is complete. 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. 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

Material to avoid: Will hydrolyse in contact with aqueous acid and alkali.

HAZARDOUS DECOMPOSITION PRODUCTS:

Product is not flammable, but may burn if heated by combustion of other material. Fight fire according to other material present

Special hazards in fire: Combustion may release carbon dioxide, nitrogen oxides, and/or chlorine compounds. Required special protective equipment for fire-fighters: Wear self contained breathing apparatus if in enclosed space.

OTHER INFORMATION

ECOTOXICITY DATA:

Flora: Toxic to many plants, especially broadleaved woody weeds. Little effect on grasses.

Fauna: Not particularly toxic.

Bees: Not toxic.

Long term: Not likely to have long term effects.

Persistence/degradation: Relatively persistent in soils. Half life around 2-3 months depending on soil.

Mobility: Moderate, given its half life.

David Grays Triclopyr 600 Herbicide
CONTACT POINT

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AUTHORISED: **Production Chemist**
DATE: **28 September 2010**

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.