



DAVID GRAY & CO PTY LIMITED

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME: David Grays Tomato Dust

OTHER NAME: Tomato Dust

MANUFACTURERS CODE: 11351 (12x500g), 11352 (6x500g)

USE: To control native budworm, loopers, caterpillars, mites, early blight, and powdery mildew .

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Worksafe Australia):

Classified as hazardous according to the criteria of NOHSC.

RISK PHRASES:

Xn Harmful - R22 Harmful if swallowed R40 Limited evidence of a carcinogenic effect R50 Very toxic to aquatic organisms

SAFETY PHRASES:

S22 Do not breathe dust S24 Avoid contact with skin S36 Wear suitable protective clothing S37 Wear suitable gloves S46 If swallowed, seek medical advice immediately and show this container or label S61 Avoid release to the environment.

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Sulphur	7704-34-9	300g/kg
Carbaryl	63-25-2	19g/kg
Copper (as copper oxychloride)	1332-40-7	40g/kg
Other inerts 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.
(Phone: 131126)

SWALLOWED:

Seek medical attention immediately.

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, seek medical attention immediately.

INHALED:

Immediately remove patient to fresh air. Seek medical attention if effects persist.

FIRST AID FACILITIES:

Soap, water, eyewash

ADVICE TO DOCTOR:

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

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, carbon dioxide (CO₂) or dry chemical extinguishers may be used. Water can be used but is not the preferred extinguishing media, as it will create water run-off. Run-off must be contained to prevent contamination of the environment.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen, sulphur dioxide and potentially hydrogen chloride.

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Self-contained breathing apparatus with other protective equipment.

HAZCHEM CODE: Not applicable

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: Large Spill: Contain spill. 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. Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Small spills: Contain and sweep up product wearing the recommended personal protective equipment. The best way to use the spilt product is in as it was originally intended, in accordance with the label directions. If spilt indoors, once absorbed and removed, wash contaminated surface with a mild bleach then detergent solution.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

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

Wash hands, face, arms and any other exposed parts of the body immediately after use and before eating, drinking, smoking or going to the toilet.

Avoid contact with food or food utensils.

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.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Carbaryl - 5mg/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: No information available

ENGINEERING CONTROLS:

Use only in a well ventilated area (outdoor use only).

PERSONAL PROTECTIVE EQUIPMENT:

For maximum protection, when handling the product, we recommend the following to be worn:

- overalls or long sleeved clothing and pants, covered footwear and a washable hat
- gloves
- dust mask
- eye protection (goggles)

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

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Light Green Dust

ODOUR:

Characteristic of mixture

pH:

Not applicable

VAPOUR PRESSURE:

Not relevant

VAPOUR DENSITY:

Not relevant

BOILING POINT:

Not applicable

MELTING POINT:

Not available

SOLUBILITY IN WATER:

Not Soluble

SPECIFIC GRAVITY:

Not applicable

FLASH POINT:

180°C (closed cup) for sulphur

FLAMMABILITY LIMITS:

LEL 35g/m³ UEL 1400g/m³ (sulphur)

IGNITION TEMPERATURE:

248 - 281°C for sulphur undisturbed or 190°C for sulphur dust

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal storage conditions
CONDITIONS TO AVOID:	Highly alkaline soils will accelerate degradation
INCOMPATIBLE MATERIALS:	Alkalis, strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of Nitrogen, sulfur dioxide and hydrogen chloride.
HAZARDOUS REACTIONS:	No information 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 Low. For product Oral LD50 (male rat) >44g/kg body weight

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 Dermal LD50 (rats) > 200g/kg body weight

INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to dust may be harmful. Prolonged exposure to the dust may cause eye and respiratory irritation, dizziness and headaches. Inhalation LD50 (rat) = Not available mg/m³ (4 hours) (carbaryl).

CHRONIC:

If mishandled (chronic exposure) may cause organophosphorus cholinesterase inhibition. Avoid prolonged or repeated exposure.

ECOLOGICAL INFORMATION

ECOTOXICITY: Carbaryl is toxic to birds and fish. Carbaryl is moderately toxic to pets and livestock. Carbaryl does not bioaccumulate in animal systems.

PERSISTENCE AND DEGRADABILITY: In soil, Carbaryl is readily degraded by hydrolysis and microbial action. The half-life of Carbaryl range between one and twenty days, depending on climatic conditions and soil types. Biochemical degradation is highly accelerated in alkaline soils. These compounds will degrade rapidly when exposed to direct sunlight.

MOBILITY: Carbaryl is expected to be moderately mobile in soil and may leach to groundwater. Sulphur in solid form is insoluble in water and hence will not leach into groundwater. No information exists for copper oxychloride at this time.

DISPOSAL CONSIDERATIONS

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

Dispose of empty containers by wrapping in paper, placing in plastic bag and putting in garbage.

Do not allow chemical containers, spray or washings to contaminate drains, sewers, streams, ponds or any waterway.

TRANSPORT INFORMATION

Product is not classified as a dangerous good 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:	Not applicable
HAZCHEM CODE:	Not applicable

REGULATORY INFORMATION

POISON SCHEDULE: S5 (caution)

OTHER INFORMATION

CONTACT POINT

TITLE: Technical Department
TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: **Celine Schnell**

DATE: 18 Jan. 11

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>