



DAVID GRAY & CO PTY LIMITED

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(During Office Hours 8am to 4.30pm Monday to Friday)

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Page 1 of 5

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME: David Grays Sulphur Spray Fungicide & Miticide

OTHER NAME: Flowable Sulphur

MANUFACTURERS CODE: 26072 – 6x500mL
26062 – 10L (in bladder or bottle)
26082 – 20L

USE: Controls certain fungal diseases in grapevines, pome and stone fruit, vegetables and ornamentals, and for the control of mites in citrus, grapevines and vegetables, as per the label directions.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

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

Classified as not hazardous according to the criteria of NOHSC.

RISK PHRASES: Not relevant

SAFETY PHRASES: Not relevant

INGREDIENTS

CHEMICAL NAME	CAS.NO.	PROPORTION
Sulphur	7704-34-9	800g/L
Water	7732-18-5	High
Other 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.

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:

Treat symptomatically.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog, dry chemical, carbon dioxide

HAZARDOUS DECOMPOSITION PRODUCTS: Sulphur Dioxide gas

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Wear positive pressure self-contained breathing apparatus. Rubber gloves and boots

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: Contain spill by using absorbent material ie (sand, earth or attapulgate). Cover ant 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: If spilt indoors, once absorbed and removed, wash contaminated surface with a mild detergent 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 eyes or mouth.

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

STORAGE:

Keep cool, out of direct sunlight and out of reach of children. Provide adequate ventilation.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

Sulphur - No exposure limit has been assigned to this material.

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:

Not relevant

ENGINEERING CONTROLS:

Product is for use outdoors. Ventilation in outdoor conditions should be adequate.

PERSONAL PROTECTIVE EQUIPMENT:

Avoid contact with skin & eyes and avoid inhalation.

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

- rubber, PVC, neoprene or nitrile gloves.
- goggles.

It is recommended that a P1 particulate dust/mist mask or respirator be worn when spraying this product.

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

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Yellow liquid
ODOUR:	Sulphurous
pH:	4.0 – 7.0
VAPOUR PRESSURE:	Not measured for mixture
VAPOUR DENSITY:	Not measured for mixture
BOILING POINT:	Not measured for mixture
MELTING POINT:	Not measured for mixture. Sulfur > 110°C
SOLUBILITY IN WATER:	Disperses in water
SPECIFIC GRAVITY:	1.37 – 1.43
FLASH POINT:	Not applicable
FLAMMABILITY LIMITS:	Not applicable
IGNITION TEMPERATURE:	Not measured for mixture
COROSIVENESS:	Non corrosive but may tarnish metals

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at normal storage conditions
CONDITIONS TO AVOID:	Extremes of heat
INCOMPATIBLE MATERIALS:	Oxidisers
HAZARDOUS DECOMPOSITION PRODUCTS:	Sulphur Dioxide
HAZARDOUS REACTIONS:	Not relevant

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 (rat) > 6000mg/kg bodyweight.
Practically non-toxic to humans and animals.

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is low. May irritate skin.
Practically non-toxic to humans and animals.

INHALED:

Inhalation LD50 (rat) = No data available. May irritate respiratory tract and mucous membranes.
Practically non-toxic to humans and animals.

CHRONIC:

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

ECOLOGICAL INFORMATION

ECOTOXICITY:	Only harmful to aquatic organisms in very high concentrations. Generally non-toxic to fish and bees.
PERSISTENCE AND DEGRADABILITY:	Not persistent in soil or air. Degradation proceeds primarily by microbial reduction in and on plants. In the environment, slight oxidation to the volatile oxides.
MOBILITY:	Sulfur, in solid form, is insoluble in water and hence is not expected to leach through into groundwater. Traces of hydrogen sulphide represent the only aqueous phase contaminant likely to be detected.

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 relevant
CORRECT SHIPPING NAME: Not relevant
DANGEROUS GOODS CLASS: Not relevant
SUB-CLASS: Not relevant
PACKAGING GROUP: Not relevant
SPECIAL PRECAUTIONS FOR USER: Not relevant
HAZCHEM CODE: Not relevant

REGULATORY INFORMATION

No further information available.

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>