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SAFETY DATA SHEET

Product Name DAVID GRAYS MANCOZEB FUNGICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name DAVID GRAY & CO PTY LIMITED

Address 2 Rawlinson Street, O'Connor, WA, 6961, AUSTRALIA

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Synonym(s) 50915 (12X125G) - MANUFACTURER'S CODE

Use(s) FUNGICIDE
SDS date 14 March 2013

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.

R63 Possible risk of harm to the unborn child.

SAFETY PHRASES

S2 Keep out of reach of children.

S36/37 Wear suitable protective clothing and gloves.

S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or

label.

Use only in well ventilated areas.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN numberNone AllocatedDG classNone AllocatedPacking groupNone AllocatedSubsidiary risk(s)None Allocated

Hazchem code None Allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content
MANCOZEB	CAS: 8018-01-7	Xn;R43 N;R50 Repr.;R63	80%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	20%

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until

advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running

ChemAlert.

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water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting. Avoid giving alcohol.

Advice to doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (nitrogen oxides, sulphur oxides, carbon oxides,

hydrocarbons) when heated to decomposition. May also evolve hydrogen sulphide and carbon

disulphide when heated to decomposition.

Fire and explosion Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation.

Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. May also evolve hydrogen sulphide and carbon disulphide when heated

to decomposition.

Extinguishing Use an extinguishing agent suitable for the surrounding fire.

Hazchem code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all

unprotected personnel. Contact emergency services where appropriate.

Environmental precautions Prevent product from entering drains and waterways.

Methods of cleaning up Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating

dust.

References See Sections 8 and 13 for exposure controls and disposal.

7. STORAGE AND HANDLING

Storage Store in a cool, dry, well ventilated area, removed from oxidising agents, acids and foodstuffs.

Ensure containers are adequately labelled and tightly closed when not in use. Also store removed

from direct sunlight.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid

eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before

eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards No exposure standard(s) allocated.

Biological limits No biological limit allocated.

Engineering controls Avoid inhalation. Use in well ventilated areas. Maintain dust levels below the recommended exposure

standard.

PPE

Eye / Face Wear dust-proof goggles.

Hands Wear PVC or rubber gloves.

Body When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Wear a Class P1 (Particulate) respirator. Where an inhalation risk exists, wear a Class P1

(Particulate) respirator.









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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance FINE YELLOW POWDER

Odour SLIGHT ODOUR **Flammability** NON FLAMMABLE Flash point NOT RELEVANT **Boiling point** NOT AVAILABLE **Melting point** NOT AVAILABLE **Evaporation rate NOT AVAILABLE NOT AVAILABLE** pН Vapour density **NOT AVAILABLE NOT AVAILABLE** Specific gravity **DISPERSIBLE** Solubility (water) **NOT AVAILABLE** Vapour pressure **NOT RELEVANT Upper explosion limit NOT RELEVANT** Lower explosion limit

Decomposition temperature > 120°C

% Volatiles NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended conditions of storage.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources.

Material to avoid Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), heat, light and moisture.

The manufacturer reports that this product is slightly corrosive to mild steel.

Hazardous Decomposition

Products

May evolve toxic gases (nitrogen oxides, sulphur oxides, carbon oxides, hydrocarbons) when heated

to decomposition.

Hazardous Reactions Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Health Hazard

Low to moderate toxicity. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Allergic skin disorders

may occur with prolonged periods of exposure.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.

Skin Irritant. Contact may result in irritation, redness and rash. May cause sensitisation by skin contact.

Ingestion Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting,

abdominal pain and diarrhoea.

Toxicity data MANCOZEB (8018-01-7)

LD50 (ingestion) 5000 mg/kg (rat) LD50 (skin) 5000 mg/kg (rabbit)

TCLo (inhalation) 500 mg/m³/6H (6-10 days pregnant animal - teratogenic)

TDLo (ingestion) 1320 mg/kg (11 days pregnant rat-teratogenic)

12. ECOLOGICAL INFORMATION

Toxicity Very toxic to aquatic organisms.

Persistence and degradability No information provided.

Bioaccumulative potential No information provided.

Mobility in soil No information provided.

Other adverse effects No information provided.

13. DISPOSAL CONSIDERATIONS

Waste disposal Ensure product is covered with moist soil to prevent dust generation and dispose of to approved



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Council landfill. Contact the manufacturer if additional information is required.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN number	None Allocated	None Allocated	None Allocated
Proper shipping name	None Allocated	None Allocated	None Allocated
DG class/ Division	None Allocated	None Allocated	None Allocated
Subsidiary risk(s)	None Allocated	None Allocated	None Allocated
Packing group	None Allocated	None Allocated	None Allocated
Hazchem code	None Allocated		

15. REGULATORY INFORMATION

Poison schedule Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons

(SUSMP).

Inventory Listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

WORKPLACE CONTROLS AND PRACTICES: Unless a less toxic chemical can be substituted for a hazardous substance, ENGINEERING CONTROLS are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



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Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

GHS Globally Harmonized System

IARC International Agency for Research on Cancer LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
PEL Permissible Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

TLV Threshold Limit Value

TWA/OEL Time Weighted Average or Occupational Exposure Limit

Revision history

Revision	Description
2.0	Standard SDS Review.
1.0	Initial SDS creation

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Prepared by

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End of SDS



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