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SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name DAVID GRAYS LAWN BEETLE GRANULES

Synonym(s) 7357, 26621 - MANUFACTURER CODES ● BEETLE GRANULES (BIFENTHRIN) ● DAVID

GRAYS LAWN BEETLE GRANULES (BIFENTHRIN) (FORMERLY)

1.2 .2 Uses and uses advised against

Use(s) CONTROL OF OUTDOOR LAWN BEETLES ● INSECT CONTROL

1.3 Details of the supplier of the product

Supplier name DAVID GRAY & CO PTY LIMITED

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

Telephone (08) 9337 4933 **Fax** (08) 9337 8316

Emailgeneral@davidgray.com.auWebsitehttp://www.davidgray.com.au

1.4 .4 Emergency telephone number(s)

Emergency (08) 9337 4933 (B/H)

2. HAZARDS IDENTIFICATION

2.1 .1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS classification(s) Aquatic Toxicity (Chronic): Category 1

2.2 Label elements

Signal word WARNING

Pictogram(s)



Hazard statement(s)

H410 Very toxic to aquatic life with long lasting effects.

Prevention statement(s)

P273 Avoid release to the environment.

Response statement(s)

P391 Collect spillage.

Storage statement(s)

None allocated.

Disposal statement(s)

P501 Dispose of contents/container in accordance with relevant regulations.

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<u>2.3</u> Other hazardsNo information provided.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	>60%
SILICA, AMORPHOUS - PRECIPITATED AND GEL	112926-00-8	231-545-4	<10%
BIFENTHRIN	82657-04-3	617-373-6	0.2%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

4. FIRST AID MEASURES

4.1 .1 Description of 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 water.

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

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

mouth out with water and give plenty of water to drink.

First aid facilities Eye wash facilities should be available.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated. May evolve carbon oxides, silicon oxides, hydrogen chloride and hydrogen fluoride gas when heated to decomposition.

5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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.

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5.4 Hazchem code

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2 Fine Water Spray.

Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Moisten with water to prevent a dust hazard and place in sealable containers for disposal.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.



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7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Ob

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Precipitated silica	SWA (AUS)		10		
Quartz (respirable dust)	SWA (AUS)		0.1		
Silica gel (a)	SWA (AUS)		10		
Silica gel (respirable dust)	SWA (AUS)		2		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

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





9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance CREAMY BROWN GRANULES
Odour SLIGHT CITRONELLA ODOUR

Flammability NON FLAMMABLE Flash point NOT RELEVANT NOT AVAILABLE **Boiling point Melting point** NOT AVAILABLE **Evaporation rate NOT AVAILABLE** рΗ **NOT AVAILABLE NOT AVAILABLE** Vapour density **NOT AVAILABLE** Specific gravity **INSOLUBLE** Solubility (water) **NOT AVAILABLE** Vapour pressure **NOT RELEVANT Upper explosion limit** Lower explosion limit **NOT RELEVANT NOT AVAILABLE** Partition coefficient

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9.1 Information on basic physical and chemical properties

Autoignition temperatureNOT AVAILABLEDecomposition temperatureNOT AVAILABLEViscosityNOT AVAILABLEExplosive propertiesNOT AVAILABLEOxidising propertiesNOT AVAILABLEOdour thresholdNOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

10.6 Hazardous decomposition products

May evolve carbon oxides, silicon oxides, hydrogen chloride and hydrogen fluoride gas when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity This product is expected to be of low acute toxicity. Under normal conditions of use, adverse health effects

are not anticipated.

Information available for the ingredient(s):

Ingredient	Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)
BIFENTHRIN	54.5 mg/kg (rat)	2 g/kg (rabbit)	4.9 mg/l/4 hours (rat)

Skin Not classified as a skin irritant. Contact may result in mechanical irritation.

Eye Not classified as an eye irritant. Contact may result in mechanical irritation.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity No evidence of mutagenic effects.

Carcinogenicity Not classified as a carcinogen. Crystalline silica is classified as carcinogenic to humans (IARC Group 1).

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However, adverse health effects are not anticipated given the non respirable nature of the silica quartz in this

product (as supplied).

Reproductive No relevant or reliable studies were identified.

STOT - single exposure

Not classified as causing organ damage from single exposure.

STOT - repeated exposure

This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely

to occur from exposure to this product. However, if granules are pulverized or crushed into a fine, respirable powder, silica exposure via inhalation is probable. Repeated overexposure to crystalline silica for extended

periods has caused acute silicosis.

Aspiration Not relevant.

12. 2. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.



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12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 1 Waste treatment methods

Waste disposal For small amounts, cover with moist sand or similar, collect and dispose of to an approved landfill site. Avoid

generating dust. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	3077	3077	3077
14.2 Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
14.3 Transport hazard class	9	9	9
14.4 Packing Group	III	III	III

145 Environmental hazards

No information provided.

14.6 Special precautions for user

 Hazchem code
 2Z

 GTEPG
 9C1

 EMS
 F-A, S-F

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

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Uniform Scheduling of Medicines and Poisons (SUSMP).

APVMA Number(s) 60398

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous

Substances [NOHSC: 1008(2004)].

Hazard codes N Dangerous for the environment



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Risk phrases R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety phrases S2 Keep out of reach of children.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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.

SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

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

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

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

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SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average



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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.

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