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# **SAFETY DATA SHEET**

Product Name DAVID GRAYS GLYPHOSATE 360 BIOACTIVE

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name DAVID GRAY & CO PTY LIMITED

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Synonym(s) BIOACTIVE • DAVID GRAY GLYPHOSATE 360 BIOACTIVE • GLYPHOSATE 360 BIOACTIVE

Use(s) WEED CONTROL SDS date 14 March 2013

### 2. HAZARDS IDENTIFICATION

#### CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**RISK PHRASES** 

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

SAFETY PHRASES

S2 Keep out of reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S39 Wear eye/face protection.

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

#### 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
GLYPHOSATE (ISO) [N-(PHOSPHONOMETHYL)GLYCINE]	CAS: 1071-83-6 EC: 213-997-4	Xi;R41 N;R51/53	36%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

## 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

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



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swallowed, do not induce vomiting.

Advice to doctor Treat symptomatically.

First aid facilities Eye wash facilities and safety shower should be available.

#### 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable. May evolve toxic gases (carbon/ nitrogen/ phosphorus oxides) 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.

**Extinguishing** Use an extinguishing agent suitable for the surrounding fire.

None Allocated Hazchem code

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions** Prevent product from entering drains and waterways.

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, Methods of cleaning up

sand, or similar), collect and place in suitable containers for disposal.

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

#### 7. STORAGE AND HANDLING

Store in a cool, dry, well ventilated area, removed from alkalis, iron, steel and zinc containers. Storage

Ensure containers are adequately labelled, protected from physical damage and sealed when not in

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

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.

No biological limit allocated. **Biological limits** 

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended.

**PPE** 

Eye / Face Wear splash-proof goggles. Wear PVC or rubber gloves. Hands

**Body** Wear coveralls.

Respiratory Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate)

respirator.







# 9. PHYSICAL AND CHEMICAL PROPERTIES

YELLOW LIQUID **Appearance** Odour SLIGHT ODOUR NON FLAMMABLE

ChemAlert.

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**Flammability** 

Flash point NOT RELEVANT

**Boiling point** 100°C **Melting point** < 0°C

Evaporation rateAS FOR WATERpHNOT AVAILABLEVapour densityNOT AVAILABLE

Specific gravity 1.17
Solubility (water) SOLUBLE

18 mm Hg @ 20°C Vapour pressure Upper explosion limit NOT RELEVANT Lower explosion limit NOT RELEVANT **Autoignition temperature** NOT AVAILABLE NOT AVAILABLE **Decomposition temperature** NOT AVAILABLE Viscosity Partition coefficient NOT AVAILABLE % Volatiles > 60 % (Water)

#### 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 Solutions may be corrosive to iron, galvanised steel and zinc evolving potentially explosive hydrogen

gas (confined areas likely to present a hazard). Alkalis may neutralise.

**Hazardous Decomposition** 

**Products** 

May evolve toxic gases (carbon/ nitrogen/ phosphorus oxides) when heated to decomposition.

Hazardous Reactions Polymerization is not expected to occur.

#### 11. TOXICOLOGICAL INFORMATION

Health Hazard Summary

Eye

Low to moderate toxicity - irritant. This product has the potential to cause adverse health effects with

Irritant. Contact may result in irritation, lacrimation, pain and redness. Risk of serious damage to

over exposure. Upon dilution, the potential for adverse health effects may be reduced.

eyes.

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

**Skin** Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

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

abdominal pain and diarrhoea.

Toxicity data GLYPHOSATE (ISO) [N-(PHOSPHONOMETHYL)GLYCINE] (1071-83-6)

LC50 (inhalation)> 12200 mg/m³/4 hours (rat)LD50 (ingestion)1214 mg/kg (mouse)LD50 (intraperitoneal)130 mg/kg (mouse)LD50 (skin)7940 mg/kg (rabbit)TDLo (ingestion)1214 mg/kg (man)

12. ECOLOGICAL INFORMATION

**Toxicity**Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence and degradability** No information provided.

Bioaccumulative potential No information provided.

**Mobility in soil** No information provided.

Other adverse effects Glyphosate is strongly adsorbed to soil and is unlikely to leach. Readily and completely biodegrades

in soil. Average half-life in soil: ~60 days. Does not bioconcentrate in aquatic organisms. Its use as a non-selective herbicide indicates toxicity to plants. Half-life in water is a few days. Sediment is the

primary sink for glyphosate in water.



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# 13. DISPOSAL CONSIDERATIONS

Waste disposal Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.

Do not dispose of undiluted chemicals on site. If recycling, replace cap and return to clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty container in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for the purpose clear of waterways, desirable vegetation

and tree roots. Empty containers should not be burned.

**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
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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.

### 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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