



## MATERIAL SAFETY DATA SHEET

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**Griffin BOA**

Date Prepared : February, 2000

**Hazardous according to criteria of Worksafe Australia**

### COMPANY DETAILS

Company Name : Griffin Corporation Australia  
Address : 18 Manning Street, Milton 4064  
Queensland, Australia  
Phone Number : 1800 350 933 OR (07) 3369 5400 (office hours)  
Facsimile Number : 1800 350 944 OR (07) 3369 5455

### IDENTIFICATION

Product Name : **GRIFFIN BOA**

Other Names : Bipyridilium Pesticides, Liquid, Toxic, N.O.S. (Contains Paraquat)  
Manufacturer's Product Code : Not applicable  
UN Number : 3016  
Dangerous Goods Class : 6.1 (Toxic) Substance  
Packaging Group : III  
Hazchem Code : 2X  
Poisons Schedule : S7  
Use : Herbicide

#### Physical Description / Properties

Appearance : Clear dark blue liquid. Obnoxious pyridine odour.  
Melting / Softening Point : About 0°C  
Boiling Point / Vapour Pressure : About 100°C, 100kPa  
Volatile Materials : Water component  
Flashpoint : Not flammable  
Specific gravity : 1.07  
Solubility in Water : Completely soluble.  
Corrosiveness : Not corrosive

#### Ingredients :

Chemical Entity	CAS Number	Proportion %	Worksafe Exposure Limits
			TWA mg/m <sup>3</sup>
Paraquat dichloride salt	1910-42-5	25.8 (w/v)	0.1*
Pyridine	110-86-1	low	16
Emetic	secret	low	-
Ingredients determined not to be hazardous	Secret	low	-
Water	7732-18-5	to 100%	-

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely. \* Paraquat TWA refers to respirable particle sizes, generally <10um (= 1/100mm)



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### HEALTH HAZARD INFORMATION

#### Health Effects :

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995). Studies have found no significant evidence of teratogenic or reproductive effects in animal studies. Evidence of kidney and liver damage may appear within 1-3 days and evidence of lung damage may appear after a few days.

#### Acute:

Very dangerous, particularly the concentrate. Product is poisonous if swallowed. Can kill if swallowed. Will irritate the nose, throat and skin. Attacks eyes. Swallowing 10-15mL of product is likely to kill. Immediate effects of poisoning include vomiting, abdominal pain and soreness of mouth and throat.

Swallowed : Very toxic by ingestion. May cause problems if prompt treatment is not sought. Product contains an emetic, which will cause vomiting if swallowed. Acute oral LD<sub>50</sub> = 315 mg/kg.

Skin : Irritating to the skin. May cause white spots or cracking of nails. Acute dermal LD<sub>50</sub> > 2000 mg/kg. Readily absorbed through the skin.

Inhaled : Very toxic by inhalation. Product should be considered to be moderately irritating by inhalation. May cause coughing and chest discomfort. Contains ingredient giving it an obnoxious odour. Acute inhalation LD<sub>50</sub> = 0.054 mg/L/4 hours.

Primary : Route of exposure is inhalation and skin and eye contact.

#### First Aid :

If poisoning occurs, get to a doctor or hospital quickly. Rapid treatment is essential whatever the exposure route.

Swallowed : If swallowed, and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF.

Eye : If this product comes into contact with eyes, hold eyes open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Transport to hospital or doctor immediately if eye irritation develops.

Skin : If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhaled : If mists or combustion products are inhaled, remove to fresh air. Lay victim down and keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Eye wash stations or batches should be available where product is being used.

Advice to doctor : Consult "The Treatment of Paraquat Poisoning: a Guide for Doctors" (1985). This is available at most large hospitals and Poisons Information Centres.



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### PRECAUTIONS FOR USE

Risk Phrases are : R41. Combination Risk Phrases are : R24/25, R37/38. Risk of serious damage to eyes. Toxic in contact with skin and if swallowed. Irritating to respiratory system and skin.

Exposure Standards : A TWA value of 0.1 mg/m<sup>3</sup> has been established for a significant ingredient of this product. Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet.

Engineering Controls: In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection : Protect eyes while using. Avoid contact with eyes and skin and clothing. When opening the container and preparing product for use, wear elbow length PVC gloves and face shield or goggles. If product gets on skin, immediately wash area with soap and water. If clothing becomes contaminated with product, remove clothing immediately. If product gets in eyes, immediately wash it out with water. Avoid contact with spray mist. Do not inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and goggles and contaminated clothing.

Flammability : Not flammable.

### SAFE HANDLING INFORMATION

Safety Phrases are : S1, S2, S13, S42, S46, S24/25, S36/37. Keep locked up. KEEP OUT OF REACH OF CHILDREN. Keep away from food, drink and animal feeding stuffs. During spraying, wear suitable respiratory equipment. If swallowed, contact a doctor or Poisons Information Centre immediately and show this container or label. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

### Storage & Transport :

This material is classed as a Dangerous Good, UN 3016, Class 6.1 (Toxic Substances). Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Poisonous Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Poisonous Substances are Fire Risk Substances), 8 (Corrosive Substances where the Poisonous Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties.



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### SAFE HANDLING INFORMATION (Cont)

#### Spills and Disposals :

In event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including self-contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto vermiculite or other absorbent material. Sweep up and shovel or collect recoverage product into labelled containers for recycling or salvage. Paraquat is strongly absorbed onto clay based materials and is thus effectively deactivated. To eliminate any traces of unabsorbed material, wash the contaminated area with a solution of sodium hypochlorite bleach. Allow it to stand for at least 30 minutes and finally hose down the area with water. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

#### Fire / Explosion Hazard :

Flashpoint :	Not flammable
Extinguishing Media :	Use media suited to burning material.
Special Fire Fighting Procedures :	Wear full protective clothing including self contained breathing apparatus.
Unusual fire & Explosion Hazards :	Decomposition products are toxic and corrosive. There is little or no chance of an explosion from this product if involved in a fire.
Stability :	Stable.
Polymerisation :	Will not polymerise.
Decomposition Products :	Carbon dioxide, carbon monoxide, nitrogen oxides, organic chlorides, water.
Materials to avoid :	Strong acids, strong alkalis, strong oxidising agents.

### OTHER INFORMATION

This product is for use only by licensed pest control operators or primary producers. This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

#### Aquatic Toxicity :

Rating LC<sub>50</sub> (96 hours) : 10 – 100ppm. Toxic to aquatic life but inactivated by bonding to soil.

PLEASE READ ALL LABELS CAREFULLY BEFORE USING THIS PRODUCT.

### CONTACT POINT

Contact Point:	The Manager, Griffin Corporation Australia Pty Ltd Milton, Brisbane, Australia
Phone Number :	1800 350 933 OR (07) 3369 5400
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This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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