

Section 1 - Identification of The Material and Supplier

Green Workz Pty Ltd
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Chemical nature: Fertiliser
Trade Name: **PGF Bicarb Buster**
Product Use: For turf & soil remediation
Creation Date: **December 2022**
This version issued: **December 2022** and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Pazardous according to the criteria of SWA.



Signal Word

Danger

Hazard Classifications

Corrosive to Metals - Category 1
Skin Corrosion/Irritation - Category 1B
Serious Eye Damage/Irritation - Category 1

Hazard Statements

H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage

Prevention Precautionary Statements

P234: Keep only in original container.
P260: Do not breathe mists or aerosols sprays.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Precautionary Statements

P311: Call a POISON CENTER or doctor.
P321: Specific treatment is urgent (see First aid on this label).
P363: Wash contaminated clothing before reuse.
P390: Absorb spillage to prevent material damage.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Storage Precautionary Statement

P405: Store locked up.
P406: Store in a corrosive resistant container with a resistant inner liner.

Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

SAFETY DATA SHEET

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Proportion	Material Hazard Code
Water		10 to 30%	
Sulphuric Acid	7664-93-9	30 to 60%	H314,H290
Carbamide Sulfate	17103-31-0	10 to 30%	H318
Other Ingredients, Non-hazardous	NoneAssigned	1 to 10%	

Section 4 - First Aid Measures

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing including footwear and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Transport to hospital or medical centre.

Signs and Symptoms of Exposure: Can cause corneal burns.

Notes to physician: Treat symptomatically. Can cause corneal burns.

Section 5 - Fire Fighting Measures

Hazchem Code: 2R

Suitable extinguishing media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Special Hazards arising from the substrate or mixture: Avoid contamination with reducing agents, i.e. metal hydrides, phosphine's, sulfites which may liberate flammable gases.

Firefighting further advice: Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area.

Fire/Explosion Hazard: Non-Combustible. Decomposition products may produce the following toxic and/or corrosive fumes:

- sulfur oxides
- nitrogen oxides
- carbon monoxide

Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

May react with metals to produce hydrogen, a highly flammable and explosive gas.

SAFETY DATA SHEET

Section 6 - Accidental Release Measures

SMALL SPILLS

- Clean up spill immediately
- Wear personal protective equipment when cleaning up (see section 8).
- Clean up spill with sand or dirt or other inert material.
- For neutralising (if opted), do not use base directly, use sand and base.
- Sweep/shovel for disposal. Comply with procedures laid down by local, state and federal governments.

LARGE SPILLS

- Clear area of personnel
- Contact Fire brigade or other hazard agency.

Prevent entry of spills to sewer and public water. Notify authorities if liquid enters sewers or public water.

Section 7 - Handling and Storage

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for Safe Handling

- Avoid skin and eye contact.
- Wash hands and other exposed area with mild soap and water before eating, drinking or smoking.

Conditions for safe storage

- Store in a cool, dry, well ventilated place and out of direct sunlight.
- Do not store close to food or food cartons.
- Store away from incompatible materials described in Section 10.
- Keep containers closed when not in use.
- Check regularly for spills.
- Keep out of reach of children and pets.
- Do not transfer to container that does not have a breathable cap.
- Do not store in a metal container
- Do not transfer this product to another container.

Section 8 - Exposure Controls and Personal Protection

Control Parameters: No value assigned for this specific material or the constituents by the National Occupational Health and Safety Commissions.

Appropriate Engineering Controls: For 1000L IBC containers, ensure a contingency plan is in place in the event of malfunction of the tap.

Personal Protective Equipment

Eye and Face Protection

- Wear goggles or face shield and take all steps to avoid splashing.
- It not recommended that contact lenses be used as they may concentrate irritants.

Skin Protection

- Wear chemically resistant LONG gloves.
- Wear rubber boots.
- Wear Apron or Overalls.
- Do not wear clothes or shoes that reveal bare skin.

Respiratory protection

- Not required under normal conditions.

SAFETY DATA SHEET



Section 9 - Physical and Chemical Properties:

Physical state:	Liquid
Colour:	Red
Odour:	Minor
pH (average):	-0.5
Freezing point:	< 0oC
Boiling point:	~ 105oC
Flash point:	None
Evaporation rate:	No data
Flammability:	Not flammable
Vapour pressure:	Name as water
Vapour density:	Same as water
Specific Gravity:	1.51(water = 1)
Solubility:	Completely soluble in water
Partition co-efficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	1 to 100 mPa.s (water = 1)

Section 10 - Stability and Reactivity

Reactivity and Associated Hazards

- Reacts with basic (alkaline) chemicals to form non-dangerous salt precipitates.
- May be exothermic in the presence of reducing agents.
- Reacts with phosphates to form non-dangerous salt precipitates.
- My corrode metal and form hydrogen gas.
- Highly exothermic when reacting with basic (alkaline) chemicals.

Stability

- May undergo mild container expansion over time without a breathable cap.
- Hazardous polymerisation will not occur.

Conditions to avoid

See Section 7

Incompatible materials

Incompatible with:

- Basic (alkaline) chemicals
- Reducing agents
- Metals

Hazardous Decomposition Products

- sulfur oxides
- nitrogen oxides
- carbon monoxide

Section 11 - Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:

Swallowing may result in nausea, vomiting, diarrhoea and abdominal pain.

Eye Contact:

A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

SAFETY DATA SHEET

Skin Contact:

Corrosive to skin - may cause skin burns.

Inhalation:

The components in this liquid are not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives) and the product is non-volatile.

Chronic:

Chronic effects adverse to the health are not considered for the components in this liquid (as classified by EC Directives). Exposure by all routes should be minimised as a precaution.

Hazards for individual components*

Components	Acute Toxicity	Irritation
Sulfuric acid	LD50 for rat (oral) = 2140mg/kg	Skin/Eye Corrosive
Carbamide Sulfate	LD50 for rat (oral) > 2000mg/kg	Eye Irritant
Other ingredients, non-hazardous	Insufficient or no data	Insufficient or no data

* additional toxicity data, including sensitisation, genetic toxicity, carcinogenicity can be found in the European Chemical Agency (ECHA) databases.

Section 12 - Ecological Information

Avoid contaminating waterways.

Ecotoxicity for product: No available data

- Ecotoxicity for individual components*

Components	Acute Aquatic Toxicity
Sulfuric acid	LC50 (96h) Lepomis 22mg/L
Carbamide Sulfate	Insufficient or no data
Other ingredients, non-hazardous	Insufficient or no data

* additional toxicity data, including long-term aquatic toxicity, aquatic invertebrates, algae/microorganisms can be found in the European Chemical Agency (ECHA) databases

Persistence and degradability: No specific data on this product
 Bioaccumulative Potential: No specific data on this product
 Mobility in Soil: No specific data on this product

Section 13 - Disposal Considerations

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

Section 14 - Transport Information

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



SAFETY DATA SHEET



UN No: 2796
Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2R
No: Proper Shipping Name: Sulphuric Acid

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), toxic gases (Class 2.3), flammable liquids (Class 3), flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), organic peroxides (Class 5.2), radioactive substances (Class 7), corrosive substances (Class 8), fire risk substances or combustible liquids. Also note that fire risk substances including dangerous goods of Class 6 or Class 9 which are fire risk substances are incompatible with dangerous goods of Class 1, Class 5.1 and Class 5.2. Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



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Dangerous Goods Class: 8
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AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



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Dangerous Goods Class: 8
Packing Group: II
Hazchem Code: 2R
No: Proper Shipping Name: Sulphuric Acid

Section 15 - Regulatory Information

The components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or are made from other materials (proprietary) that are also listed on the AICS.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

This material/constituent(s) is covered by the following requirements:

Poison Schedule: 6 (SUSMP)

SAFETY DATA SHEET



Section 16 - Other Information

DISCLAIMER:

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

Green Workz Pty Ltd MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the Green Workz Pty Ltd product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of an Green Workz Pty Ltd product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Green Workz Pty Ltd product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. For this reason, Green Workz Pty Ltd always recommends a user perform a test patch or trial in small scale or in an inconspicuous area prior to full application to limit possible damage. Testing before beginning any project is also the best way to ensure product effectiveness.

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Please read all labels carefully before using product.

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