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material safety data sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: GROCAL MGB™
Synonyms: -
Product Type: Liquid trace element Fertilizer
Company Name: Agrichem
2-4 Chetwynd St (PO Box 4037)
Loganholme QLD 4129 Australia
Date of Issue: September 03, 2009

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Dark green liquid.

Warning Statements:

Keep out of reach of children.

CAUTION. Causes strong eye irritation. Harmful if inhaled, swallowed or absorbed through the skin.

Avoid breathing vapor of spray mist.

Avoid contact with eyes, skin or clothing.

Potential Health Effects:

Likely Routes of Exposure: Inhalation, eye and skin contact.

Eye Contact: Strong irritation of eyes.

Skin Contact: Contact may cause irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions.

Ingestion: Harmful if swallowed.

Inhalation: Inhalation of mist may cause irritation of the upper respiratory tract.

3. INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.
Urea	57-13-16
Calcium Chloride	10043-52-4
Calcium Nitrate	10124-37-5
Magnesium Chloride	7786-30-3
Boric Acid	10043-35-3

4. FIRST AID MEASURES

If in Eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Seek medical advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Seek medical advice if irritation persists.



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If Inhaled: Not applicable.

If Swallowed: Seek medical advice. Do not induce vomiting unless told to do so by the doctor. Drink water if possible.

5. FIRE FIGHTING MEASURES

This is not a flammable material.

Flash Point: Non-combustible

Autoignition Temperature: Not determined

Flammability Limits: Non-combustible

Special Fire Fighting Procedures: Firefighters should wear approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Suitable for most extinguishing media.

Hazardous Decomposition Materials (Under Fire Conditions): This is not a flammable product. Some gases such as oxides of nitrogen and ammonia may be released..

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Pump any free liquid into an appropriate closed container. Collect washings for disposal. Decontaminate tools and equipment following cleanup. See Section 13

Other Information: Large spills may be reportable to the state and/or local regulatory agencies.



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7. HANDLING AND STORAGE

Handling:

Avoid breathing vapor or spray mist. Avoid contact with eyes, skin or clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage:

This product should be stored in its original container in a cool, dry place out of reach of children and out of direct sunlight. Do not use or store near open flame. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respirator Protection: Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark green liquid.
Boiling Point:	>100° C
Solubility in Water:	100% Soluble
Specific Gravity:	1.50-1.52
Evaporation Rate:	Not determined
Vapor Density:	Not determined
Vapor Pressure:	Not determined
pH:	2.0 – 2.5

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.



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10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Avoid contact with:

1. Strong bases – may release ammonia

Hazardous Decomposition Products: Toxic gases may be formed in a fire situation, oxides of nitrogen and other ammonia may be released as well.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Data from laboratory studies on this product are summarized below:

Oral: Not determined

Dermal: Not determined

Inhalation: Not determined

Eye Irritation: Strong irritation

Skin Irritation: May cause skin irritation or burn

Skin Sensitization: Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Soil Absorption / Mobility: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

For any spillage wash with plenty of water or absorb with earth or other inert material and dispose as per local regulations.

14. TRANSPORTATION INFORMATION

This is a non dangerous good. This is non-hazardous material.

15. REGULATORY INFORMATION

On the data available this is not a dangerous product. The usual precautions should be observed when using fertiliser products



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16. OTHER INFORMATION

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