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material safety data sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Activist Mag Flo™
Synonyms: -
Product Type: Liquid Magnesium Fertilizer
Company Name: Agrichem
2-4 Chetwynd St (PO Box 4037)
Loganholme QLD 4129 Australia
Date of Issue: September 08, 2009

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance and Odour: Light brown coloured suspension.

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: May cause physical irritation.

Skin Contact: Contact with skin may cause irritation. Not expected to cause sensitization.

Ingestion: Material has low oral toxicity. If large quantities are swallowed, may produce stomach irritation.

Inhalation: Inhalation of spray may result in respiratory irritation.

3. INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.
Magnesium Hydroxide	1309-42-8
Manganese carbonate	598-62-9
Zinc Oxide	1314-13-2
Urea	57-13-6

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.

If Inhaled: Not applicable.



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If Swallowed: Rinse mouth with water. Give plenty of water to drink. If irritation develops, seek immediate medical advice.

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): Not combustible . Decomposes on heating, emitting toxic fumes of magnesium oxide. However the temperature required to generate toxic fumes would be above 1200°C. Metal fume fever may result from the inhalation of magnesium oxide fumes if magnesium hydroxide is heated to high temperatures. Symptoms of metal fume fever include chills, fever, headache, tightness of chest, coughing, weakness, dryness of nose and mouth, muscular pain, nausea and vomiting. Symptoms of metal fume fever occur about 4 to 12 hours after exposure and usually last about 24 hours. Recovery is complete with no apparent permanent disability.

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: Avoid eye contact and prolonged skin contact. Wear overalls, safety glasses and PVC or Nitrile gloves. Avoid inhaling spray. Always wash hands before smoking, eating, drinking or using the toilet.

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 and Odor:	Light brown coloured solution.
Boiling Point:	>100° C
Solubility in Water:	Insoluble
Specific Gravity:	1.36-1.39
Evaporation Rate:	Not determined
Vapor Density:	Not determined
Vapor Pressure:	Not determined
pH:	9.5 – 11.5

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.

Africa Asia Australia Europe Latin America Middle East North America



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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 acids –will react vigorously.
2. Strong oxidising agents – may decompose
3. Metals – is corrosive to most.

Hazardous Decomposition Products: Violent reaction or ignition can occur when in contact with interhalogens, (e.g. bromine, pentafluoride, chlorine trifluoride), and acids.

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: Irritation

Skin Irritation: May cause skin irritation

Skin Sensitization: Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Soil Absorption / Mobility: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Slippery when split. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Collect and seal in properly labelled drums for disposal. Wash area down with excess water.

Refer to State Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

14. TRANSPORTATION INFORMATION

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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

16. OTHER INFORMATION

The information contained in this MSDS is by way of general comment only. Because conditions of use, suitability of product, and application conditions are beyond the control of Agrichem, this MSDS does not offer any advice in respect to any product. The authors and Agrichem Manufacturing Industries Pty Ltd hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this MSDS