

MATERIAL SAFETY DATA SHEET

Date stamp:02-Oct-2012MSDS Ref. No.: E90505Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Micromax Granular

Description: General Fertilizer Product

Company 24-HOUR EMERGENCY TELEPHONE NUMBERS:

 Everris NA Inc.
 CHEMTREC (U.S.): 1-800-424-9300

 P.O. Box 3310
 CHEMTREC (International): 1-703-527-3887

 Dublin, OH 43016
 Non-Emergency Calls: 1-800-492-8255

Formula No.: \$10583 Product Number(s): E90505

2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION

Precautionary Statements May be harmful if swallowed or inhaled. Avoid breathing dust. May cause eye/skin irritation. Avoid contact

with eyes, skin, and clothing. Wash with soap and water after handling.

Potential health effects

Eye contact: Irritating to eyes.

Skin contact: May cause skin irritation in susceptible persons.

Ingestion:Irritating to mouth, throat and stomach.Inhalation:May irritate respiratory tract tissues.

Aggravated Medical Conditions: Asthma.

Principle routes of exposure: Skin, Eyes, Inhalation

Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %
Iron sulphate, FeSO4+1H2O	7720-78-7	40-60
Dolomite	16389-88-1	5-10
Manganese sulphate, MnSO4	7785-87-7	5-10
Copper sulfate pentahydrate, CuSO4+5H2O	7758-99-8	1-5
Zinc Sulfate Anhydrous	7733-02-0	1-5
Sodium borate, Na2B4O7	1330-43-4	0.1-1
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<0.1

4. FIRST AID MEASURES

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a

poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not

give anything by mouth to an unconscious person.

Inhalation: Move to fresh air. Call a physician or Poison Control Centre immediately.

5. FIRE-FIGHTING MEASURES

Flammable properties: The product is not flammable.

Suitable extinguishing media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

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5. FIRE-FIGHTING MEASURES

Explosion potential: Dust clouds may be explosive. Hazardous combustion products: Toxic fumes may be produced.

Fire fighting procedures: Apply water from a safe distance to avoid splattering of molten material.

Special protective equipment for

firefighters:

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation.

Environmental precautions: Prevent product from entering drains.

Methods for containment:Vacuum or sweep up material and place in a disposal container.Methods for cleaning up:Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m³ TWA	5 mg/m³ TWA
Dolomite	Not Listed	Not Listed
Iron sulphate, FeSO4+1H2O	1 mg/m³ TWA	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m³ TWA	Not Listed
Copper sulfate pentahydrate,	Not Listed	Not Listed
CuSO4+5H2O		
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Sodium borate, Na2B4O7	2 mg/m³ TWA	Not Listed

Engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard.

Personal Protective Equipment

Eye/face protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may

occur. Safety glasses.

Skin and body protection: Respiratory protection:

Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves. If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection, e.g., NIOSH/MSHA approved respirator for dusts, mists, and

fumes

General hygiene considerations: Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidColor:TanFlash point:Not applicableAppearance:GranulateDensity:78 lbs./cu.ft.Solubility:Slightly soluble

10. STABILITY AND REACTIVITY

Chemically Stable:Stable under normal conditions.Conditions to avoidDust may form explosive mixture in air.

Materials to avoid: Strong oxidising agents.

Hazardous decomposition products: Combustion produces caustic fumes. Possibility of hazardous reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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LD50/oral: No information available **Eye effects:** Eye irritation possible

Skin effects: May cause skin irritation and/or dermatitis Sensitization: May cause sensitization of susceptible persons

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any ingredient as a carcinogen .

Ingredients	NTP:	IARC:	OSHA:
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
Dolomite	Not listed	Not listed	Not listed
Iron sulphate, FeSO4+1H2O	Not listed	Not listed	Not listed
Manganese sulphate, MnSO4	Not listed	Not listed	Not listed
Copper sulfate pentahydrate, CuSO4+5H2O	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Sodium borate, Na2B4O7	Not listed	Not listed	Not listed

Ingestion: Harmful if swallowed.

Inhalation: May cause irritation of respiratory tract.

Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: No data is available on the product itself. May be toxic to aquatic organisms.

Persistence and degradability:

Bioaccumulative potential:

Mobility:

Degrades slowly.

No information available.

Water contaminating.

Aguatic toxicity: Toxic to fish.

Additional ecological information: This product contains more than 0.001% Molybdenum (Mo). Do not contaminate water by cleaning of

equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT (Land) Not DOT regulated
DOT (AIR) Not DOT regulated

DOT (Vessel)UN3077, Environmentally Hazardous Substance, solid, n.o.s., (copper sulfate), 9, PGIII, Marine Pollutant

15. REGULATORY INFORMATION

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Dolomite	16389-88-1	Not Listed	Not Listed
Iron sulphate, FeSO4+1H2O	7720-78-7	1000 lb final RQ	Not Listed
		454 kg final RQ	
Manganese sulphate, MnSO4	7785-87-7	Not Listed	Not Listed
Copper sulfate pentahydrate, CuSO4+5H2O	7758-99-8	10 lb final RQ	Not Listed
		4.54 kg final RQ	
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ	Not Listed
		454 kg final RQ	
Sodium borate, Na2B4O7	1330-43-4	Not Listed	Not Listed

General Information

Contact local authorities for disposal of large quantities of product.

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16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 0 Reactivity: 1

HMIS: Health: 2 Flammability: 0 Reactivity: 1

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

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