# **Safety Data Sheet**

Issue Date: 17-Nov-2000 Revision Date: 28-Mar-2016 Version 2

# 1. IDENTIFICATION

**Product Identifier** 

Product Name PolyAmine Magnesium

Other means of identification

**SDS #** FFN: 00006

Recommended use of the chemical and restrictions on use

Recommended Use Fertilizer.

Details of the supplier of the safety data sheet

**Supplier Address** 

Verdesian Life Sciences, U.S., LLC. 1001 Winstead Drive, Suite 480 Cary, NC 27513

**Emergency Telephone Number** 

**Company Phone Number** Business Phone: (800) 868-6446

Fax Phone: (919) 535-3652

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance Dark liquid Physical State Liquid Odor Citrus

#### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Organic Acid	Proprietary	1-10

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

4. FIRST-AID MEASURES

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**First Aid Measures** 

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with plenty of water.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen.

**Ingestion** Call a physician.

Most important symptoms and effects

**Symptoms** Inhalation may cause irritation to nasal passages. May cause skin and eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

# **Specific Hazards Arising from the Chemical**

Combustion products may be toxic.

Hazardous Combustion Products Oxides of sulfur. Magnesium oxide.

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

# Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Absorb liquids by covering with clay or tuber absorbent material. Vacuum or sweep up

material and place in a disposal container.

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# 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Observe

precautions found on the label.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

incompatible materials.

None known based on information supplied. **Incompatible Materials** 

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Organic Acid	-	15 mg / m3 (Total)	-

# **Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Goggles.

**Skin and Body Protection** Rubber gloves. Wear suitable protective clothing.

**Respiratory Protection** None normally required. If vapors may exceed acceptable levels, use an OSHA/NIOSH-

approved respirator or mask for protection against pesticide dusts, mists, and vapors.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Liquid

**Appearance** Dark liquid Odor Citrus

Color **Dark Colored Odor Threshold** Not determined

Remarks • Method <u>Values</u> **Property** 

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2.69 **Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** Not determined Flash Point Not determined **Evaporation Rate** Not determined Flammability (Solid, Gas) n/a-liquid **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not available **Vapor Density** Not available **Specific Gravity** Not determined Water Solubility Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined Density 9.67 wt/gal

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

### **Conditions to Avoid**

Excessive heat.

### **Incompatible Materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

Sulfur oxides. Magnesium oxide.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

# **Component Information**

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Organic Acid	= 3000 mg/kg ( Rat )	-	•
Glycine 56-40-6	= 7930 mg/kg ( Rat )	-	-

### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

#### Numerical measures of toxicity

Not determined

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Organic Acid		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50
Magnesium Sulfate Anhydrous 7487-88-9	2700: 72 h Desmodesmus subspicatus mg/L EC50	2610 - 3080: 96 h Pimephales promelas mg/L LC50 static		266.4 - 417.3: 48 h Daphnia magna mg/L EC50 Static

### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Organic Acid	-1.72

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

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# 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including Note

exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

Not regulated **IMDG** 

# 15. REGULATORY INFORMATION

#### International Inventories

Not determined

#### US Federal Regulations

#### **SARA 313**

Not determined

### **US State Regulations**

# U.S. State Right-to-Know Regulations

Not determined

# 16. OTHER INFORMATION

NFPA **Health Hazards Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Physical Hazards Personal Protection** HMIS **Health Hazards Flammability** Not determined Not determined Not determined Not determined

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# Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**