# **Safety Data Sheet**

Issue Date: 09-Jan-1996 Revision Date: 28-Mar-2016 Version 2

# 1. IDENTIFICATION

**Product Identifier** 

Product Name PolyAmine Calcium

Other means of identification

**SDS #** FFN: 00007

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

Serious eye damage/eye irritation Category 2

# **Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

Signal Word Warning

**Hazard Statements** 

Causes serious eye irritation



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#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Calcium chloride	10043-52-4	30-40
Organic Acid	Proprietary	1-5

<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

# First Aid Measures

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

eye irritation persists: Get medical advice/attention.

**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**

Decomposes at melting point.

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.

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# 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.

# 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. Wash thoroughly after handling. Use personal protection

recommended in Section 8.

#### 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.

Incompatible Materials Strong oxidizing agents. Strong reducing agents. Magnesium.

# 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.

Liquid

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

Appearance Dark liquid Odor Citrus

Color Dark Colored Odor Threshold Not determined

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

рΗ 2.56 **Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** Not determined Flash Point Not determined **Evaporation Rate** Not determined n/a-liquid Flammability (Solid, Gas) **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

# 10. STABILITY AND REACTIVITY

#### Reactivity

Density

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.

9.73 wt/gal

#### **Conditions to Avoid**

Excessive heat.

### **Incompatible Materials**

Strong oxidizing agents. Strong reducing agents. Magnesium.

### **Hazardous Decomposition Products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

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**Skin Contact** Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion May be harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium chloride	= 1000 mg/kg ( Rat )	= 2630 mg/kg (Rat)	-
10043-52-4			
Glycine	= 7930 mg/kg (Rat)	-	-
56-40-6			
Organic Acid	= 3000 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
Calcium chloride 10043-52-4		10650: 96 h Lepomis macrochirus mg/L LC50 static		52: 48 h Daphnia magna mg/L EC50
Organic Acid		1516: 96 h Lepomis macrochirus mg/L LC50 static		120: 72 h Daphnia magna mg/L EC50

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Organic Acid	-1.72

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

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#### **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.

# 14. TRANSPORT INFORMATION

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

exemptions and special circumstances.

**DOT** Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

# **International Inventories**

Not determined

# US Federal Regulations

# SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **SARA 313**

Not determined

### **US State Regulations**

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

Not determined

# **16. OTHER INFORMATION**

NFPA Health Hazards

Not determined

Health Hazards

Not determined

Flammability
Not determined
Flammability
Not determined

Instability
Not determined
Physical Hazards
Not determined

Special Hazards
Not determined
Personal Protection
Not determined

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# **Disclaimer**

**HMIS** 

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**End of Safety Data Sheet**