

# SAFETY DATA SHEET

## PLANT GUARD



**PLANT GUARD**<sup>®</sup>  
organic leaf & root protection

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### 1. Product Identification

**Product Name:** PLANT GUARD. Monosilicic Acid Solution

**Manufacturer Code:** SA-PG.

**Synonyms:** SILICIC ACID, MONOSILICIC ACID

**CAS No.:** Not applicable to mixtures. **Molecular**

**Weight:** Not applicable to mixtures. **Chemical**

**Formula:** Not applicable to mixtures. **Product**

**Codes:** Not applicable to mixtures

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### 2. Composition/Information on Ingredients

Ingredients	CAS Number	Percentage	Hazardous
WATER	7732-18-5	76 %	No
SILICIC ACID	7699-41-4	24 %	No

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### 3. Hazards Identification

#### Emergency Overview

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**HAZARDOUS in case of eye contact, ingestion or inhalation.**

**Hazchem Code 2R**

**SAFETY-** Ratings (Provided here for your convenience)

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Health Rating: 1 – Slightly hazardous, Irritant Flammability Rating:

0 – nonflammable Reactivity Rating: 0 - Nonreactive

Contact Rating: 0 – Non-hazardous

Lab Protective Equip: EYE PROTECTION (GOGGLES); LAB COAT or APRON; PROPER GLOVES

Storage Color Code: White

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#### Potential Health Effects

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**Inhalation:**

May cause respiratory tract irritation.

**Ingestion:**

Ingestion is unlikely to have any toxic effects, but the product may act as an intestinal irritant.

**Skin Contact:**

Harmful effects are not expected from short periods of exposure. Prolonged or repeated exposure may cause irritation.

**Eye Contact:**

May cause eye irritation; Symptoms may include discomfort or pain, excessive blinking, and tear production.

**Chronic Exposure:**

Prolonged lung contact to the respiratory tract may cause irritation. Prolonged skin contact may lead to irritation. No target organ chronic effects under normal conditions of use.

**Aggravation of Pre-existing Conditions:**

Because of its irritating properties, dust and allergens may aggravate pre-existing eye, skin, and respiratory conditions.

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## **4. First Aid Measures**

### **Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Exposed persons should be kept under medical observation for 24 hours. Inhalation is not a normal route of exposure.

### **Ingestion:**

Treat systematically. Not expected to be toxic by ingestion.

### **Skin Contact:**

No emergency care is anticipated. Wash skin with soap and water. Remove contaminated clothing. Wash clothing before reuse. Obtain medical attention if irritation persists.

### **Eye Contact:**

No emergency care is anticipated. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Cold water may be used. Get medical attention if discomfort persists.

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## **5. Fire Fighting Measures**

### **Fire:**

Flash point: > 230°F

### **Special Fire Fighting Instructions:**

Use water spray to cool fire exposed containers and structures. Do not direct solid water stream into burning molten material, thus causing splattering and spreading of the fire.

### **Fire Extinguishing Media:**

Powder, CO<sub>2</sub>, dry chemical, water spray, foam.

### **Products of Combustion:**

Small amounts of silicon oxides may be released.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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## **6. Accidental Release Measures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent entry to sewers, basements, or confined areas; dike if needed.

Floors may be slippery and use care to avoid falling.

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## 7. Handling and Storage

Never use pressure to empty containers. Protect against physical damage. Store in a cool, dry and well-ventilated location. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Containers of this material are non-hazardous when empty.

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## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

Not normally needed. Ventilation is not normally required. If there is a large spill, wear an appropriate organic filter mask to reduce lung irritation.

### **Skin Protection:**

Not normally needed. Wear appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to minimize skin contact when handling large quantities.

### **Eye Protection:**

Not normally needed. Wear appropriate chemical safety glasses or goggles and/or a full face shield where splashing is possible.

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## 9. Physical and Chemical Properties

**Appearance:** Clear Grey-Amber liquid.

**Odor:** None.

**Solubility:** Soluble in water.

**Specific Gravity:** 1.30

**PH:** 12.5

**% Volatiles by volume @ 21°C (70°F):**

Not available

**Boiling Point:**

> 230°F.

**Melting Point:**

No information found.

**Vapor Pressure:**

N/A.

**Vapor Density:**

N/A

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## 10. Stability and Reactivity

### **Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Silicon oxides may form when burned. **Hazardous Polymerization:**

Will not occur.

### **Incompatibilities:**

Select water reactant metals.

### **Conditions to Avoid:**

N/A.

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## 11. Toxicological Information

### **Toxicological Data:**

This product may cause eye irritation. This product is non-hazardous under normal conditions of use. OSHA/HMIS has listed silicon dioxide as non-hazardous under normal conditions of use.

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## 12. Ecological Information

### **Environmental Fate:**

This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.

### **Environmental Toxicity:**

This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.

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## 13. Disposal Considerations

This product is considered a non-hazardous waste under RCRA, as supplied. Whatever cannot be saved for recovery or recycling should be handled as non-hazardous waste and can be sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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## 14. Transport Information

### Domestic (Land, D.O.T.)

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**Proper Shipping Name:** Non-hazardous

**Hazard Class:** Non-hazardous **UN/NA:** Non-hazardous **Packing Group:** N/A

**Information reported for product/size: 20, 200 & 1,000L DRUMS**

### International (I.M.D.G.)

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Product is not regulated by IMDG.

### International (Air, I.C.A.O.)

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**Proper Shipping Name:** Non-hazardous

**Hazard Class:** Non-hazardous

**UN/NA:** N/A

**Packing Group:** N/A

**Information reported for product/size: 20, 200 & 1,000L DRUMS**

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## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredients	CAS Number
WATER	7732-18-5
SILICIC ACID	7699-41-4

This product is regulated by the Environmental Protection Administration, under the U.S. Environmental Protection Act as a non-hazardous fertilizer. The MSDS is prepared to the OSHA Hazard Communication Standard, 29CFR 1910:1200

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