

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

1.1 Product Identifier

Nature's Source® Bio Si

1.2 Chemical description/Application

Special Plant Supplement to Enhance Cell Wall Strength and Promote Upright Stature of Plants

1.3 Details of the manufacturer and supplier of the safety data sheet

Manufacturer Address

ADASCA
Somnath Park, Near Dindori Naka, Panchavati, Nashik 422003, India
+91-253-2515044

Supplier Address:

Nature's Source®
307 E. Mulberry St., Sherman, TX 75090 USA
Tel: (888) 839-8722

1.4 Emergency telephone

(888) 839-8722
Nature's Source®, Sherman, TX 75090

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Orthosilicic Acid (CAS# 10193-36-9); % Proprietary

2.2 Label Elements:

Signal Word: WARNING

Pictogram: NONE

Hazard Statements: May be harmful if swallowed or in contact with skin. Cause eye irritation. Causes mild skin irritation.

Precautionary Statements: Do not get in eyes or skin or on clothing. Wash hands, forearms, and other exposed areas thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear impervious gloves, protective clothing, and eye protection (goggles or full-face shield).

Disposal: Dispose of contents /container in accordance with state and local regulations

2.3 Other Hazards: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Orthosilicic Acid (CAS# 10193-36-9); % Proprietary

3.2 Chemical Name: N/A

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Prolonged contact may cause slight irritation. Supply fresh air immediately. Rinse mouth and nose with water. Contact a physician in breathing is difficult or otherwise necessary.

Skin: May cause skin irritation. Wash affected area with plenty of soap and water. Remove contaminated clothing and footwear. Cover irritated area with calming salve. If symptoms persist, call a physician.

Eyes: This material may cause eye irritation. Remove contact lens, if there. Rinse with plenty of lukewarm water, also under eyelids for fifteen minutes. If symptoms persist, call a physician.

Ingestion: Irritation of the mouth, pharynx, esophagus, and stomach can develop. Rinse mouth with water. If uneasy symptoms persist, call a physician. Induce vomiting only if advised by physician or poison control. Call poison control. Do not give anything by mouth if patient is unconscious.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptoms

5. FIRE FIGHTING MEASURES

5.1 Flammability: Non-Flammable

5.2 Special Remarks on Explosion Hazards:

Substance can explode when wet and heated with magnesium

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Observe protective instructions (see Sections 7 and 8). Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3 Methods and material for containment and cleaning-up

Small Spills: Use appropriate tools to collect the spilled material in a convenient waste disposal container. Complete the cleaning by pouring water on the contaminated surface and disposing of the material as approved by the authorized local and state requirements.

Large Spills: Stop leak without causing any risk. Do not get water inside the container. Do not touch spilled material with bare hands. Use water spray to reduce product fumes, if any. Prevent entry into sewers, basements or confined areas; dike the area if required. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated area and allow disposal through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities.

7. HANDLING & STORAGE

7.1 Precautions on safe handling

Keep the product in a locked facility. Do not allow children and unauthorized persons to handle the product. Wear suitable clothing when handling the product. Avoid contact with eyes, skin, and mouth. Seek medical advice immediately when needed and share the label or container with physician.

7.2 Conditions for safe storage

Keep the container tightly closed and away from children. Store the product in a cool, well-ventilated place away from direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Guidelines:

This product does not contain any hazardous substance with any occupational exposure limits established by regional specific authorized body.

8.2 Engineering Measure:

Ensure adequate ventilation, especially in confined area; provide adequate exhaust fans as required to ensure that workstation areas are devoid of any bad air or the airborne levels are below the acceptable norms. Provide relevant arrangements wherein the dust, if generated, is cleared as soon as possible. Ensure that the eyewash stations and safety showers are close to the workstations.

8.3 Personal Protection:

Use gloves, safety goggles, protective clothing, protective respirators, and other safety personal protection equipment. Ensure that the handler in case of large spills or leaks follows all safety guidelines.

8.4 Protective and Hygiene Measures:

At work, do not eat, drink or smoke. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of workday. Provide an eye bath.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Color:	Light Yellow
Odor:	Mild Ammonia
Density:	1.1386 g/mL at 68°F
Surface Tension:	54.703 mN/m at 68°F (1 g/L of product)
Explosive Property:	Non-explosive when tested under thermal and mechanical methods.
pH:	11.58 of 1% aqueous solution at 73°F

9.2 Other information: No data available

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10. STABILITY & REACTIVITY

10.1 Chemical Stability: The product is stable under normal conditions of storage.

10.2 Reactive Hazard: None known based on the available information

10.3 Conditions to Avoid: Incompatible products.

10.4 Conditions of Instability: Moisture, strong oxidizing substances

10.5 Corrosivity: Not available

10.6 Polymerization: Will not occur.

10.7 Reactivity: Incompatible with hydrogen fluoride, xenon hexafluoride, oxygen difluoride, and chlorine trifluoride.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Inhalation Toxicity (LC₅₀): >5.08 mg/L of Air
(no treatment related pathological findings were noted at the mean maximum achievable concentrations)

Irritation and Corrosivity: No data available

Sensitizing Effects: No data available

Severe Effects after Repeated or Prolonged exposure: No data available

Carcinogenic/mutagenic/toxic effects for reproduction: No data available

12. ECOLOGICAL INFORMATION

12.1 Acute Toxicity to Quail (LD₅₀): >2000 mg/kg body weight

12.2 Persistence and Degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in Soil: No data available

12.5 Other Adverse Effects: No data available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Advice on disposal: Disposal in accordance with local regulations for hazardous goods.

Contaminated packaging: Disposal in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 DOT (USA): Non-hazardous

15. REGULATORY INFORMATION

15.1 Federal & State Regulations:

TSCA 8(b) inventory: Silicic acid

15.2 Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR1910.1200)

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substance

15.3 WHMIS (Canada):

Not controlled under WHMIS (Canada)

15.4 DSCL (EEC):

R-23 Toxic by inhalation: R40 – Possible risks of irreversible effects; S1/2 – Keep under lock and key and out of reach of children; S36/37 – Wear suitable protective clothing and gloves; S45 – in case of accident or if you feel unwell, seek medical advice immediately (show the label to the physician).

15.5 HMIS (USA):

Health Hazard: 1; Fire Hazard: 0; Reactivity: 0; Personal Protection: E

15.6 National Fire Assoc. Specific Hazard (USA):

Health: 1; Fire Hazard: 0; Reactivity: 0; Personal Association Specific Hazard: 0

15.7 Protective Equipment:

Gloves, overcoat, appropriately approved respirator, safety glasses, shoes

16. OTHER INFORMATION

16.1 Created by: Technical Department, ADASCA

16.2 Verified by: R&D Department, ADASCA

16.3 Finalized by: QA Department, ADASCA

16.4 Prepared on: February 14, 2021

16.5 Revised on: February 14, 2021

16.6 Revision Summary: The information shared in the current document is prepared based on the current information available with us and is believed to be correct to the best of our knowledge. However, we make no warranty, express or implied, with respect to the information contained in this document. The information provided is intended only as a guidance for safe handling, use processing, storage, transportation, disposal, etc. Under no circumstances is ADASCA or Nature's Source liable for any claims, losses, or damages of any third party or for lost profits of any special direct or indirect, incidental, consequential or exemplary damages, arising even if ADASCA or Nature's Source has been advised of the possibility of such a loss.