

## Safety Data Sheet

### Section 1. Product and Company Identification

Product Identification: ICV-1 Solution B  
SDS Number: ICV-1 Solution B  
Recommended use: For Laboratory Use  
Company Identification: High-Purity Standards  
P.O. Box 41727  
Charleston, SC 29423  
Telephone: (843) 767-7900  
FAX: (843) 767-7906

In case of emergency call INFOTRAC: 800-535-5053

### Section 2. Hazard Identification

**Classification:**

None

**Labeling:**

Symbol: None

Signal word: None

Hazard statement: None

Precautionary statement: None

### Section 3. Chemical Composition

Component	CAS/EINECS Registry #	Percent Concentration
Sodium Silicate (Na <sub>2</sub> SiO <sub>3</sub> )	1344-09-8/239-981-7	0.01 (as Si)
Sodium Silicate (Na <sub>2</sub> SiO <sub>3</sub> )	1344-09-8/239-981-7	0.0162 (as Na)
Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> )	7664-93-9/231-639-5	0.02 (as S)
Water, deionized	7732-18-5/231-791-2	Balance

### Section 4. First Aid Measures

Emergency Overview: May cause irritation. Wash areas of contact with water.

Skin/eye Contact: May cause slight irritation. Remove contaminated shoes and clothing. Flush contaminated area with plenty of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Not likely to be hazardous by inhalation.

Ingestion: May cause irritation to stomach if ingested in large quantities. Rinse mouth with water. Dilute with water or milk.

### Section 5. Fire Fighting Measures

Fire & Explosion hazards: Not considered to be a fire or explosion hazard.

Extinguishing Media: Use any extinguishing media that is suitable for the surrounding area.

Specific Methods: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

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#### Section 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Do not allow to enter drainage systems or water ways. Always dispose of in accordance with local regulations.

#### Section 7. Handling and Storage

Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Keep container tightly sealed. Refer to Section 8 for personal handling instructions.

#### Section 8. Exposure Controls and Personal Protection

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.  
Personal Protection: Wear proper gloves, safety glasses with side shields, lab coat/apron.

#### Exposure Limits:

<b>Component</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>
Sodium Silicate	Not Available	Not Available
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Sulfuric Acid	5 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>

#### Section 9. Physical and Chemical Properties

Physical state: Liquid  
Color: Clear, colorless liquid  
Odor: Odorless  
Odor threshold: None  
pH: 5-8  
Melting point: N/A  
Freezing Point: N/A  
Boiling Point: ~100°C  
Flash point: N/A  
Evaporation rate: N/A  
Flammability: N/A  
Explosion limits: N/A  
Vapor Pressure (mm): N/A  
Vapor Density (air+1): N/A  
Relative density: (H<sub>2</sub>O = 1): Approximately 1.0  
Solubility in H<sub>2</sub>O: Complete  
Auto ignition temperature: N/A  
Decomposition temperature: N/A  
Molecular Weight: N/A

#### Section 10. Stability and Reactivity

Stability Indicator: YES

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Conditions to Avoid: Incompatibles

Incompatibles: Organic materials, chlorates, reducing agents, strong alkali, hydroxides, cyanides.

Strong acids, metals such as aluminum, lead, tin and zinc.

Hazardous Decomposition Products: None expected.

Hazardous Polymerization: Will not occur.

#### Section 11. Toxicological Information

May affect skin, mucous membranes and eyes. Swallowing may lead to a negative effect on mouth and throat and to the risk of perforation or the corrosion of esophagus and stomach.

RTECS #:

H<sub>2</sub>SO<sub>4</sub>-WS5600000

Na<sub>2</sub>SiO<sub>3</sub>- 1002947SS

LD<sub>LO</sub> Ingestion, Dog (Sodium Silicate): 250 mg/kg;

LD<sub>50</sub> Oral, Rat: (Sulfuric Acid) 2140 mg/kg; LC<sub>50</sub> Inhalation, Rat: (Sulfuric Acid) 510 mg/m<sup>3</sup>/2H, no toxic effect noted.

#### Section 12. Ecological Information

Ecotoxicological information: Do not allow material to reach ground water, water bodies, or sewage system.

#### Section 13. Disposal Considerations

General: Dilute with water and flush to the sewer system if local regulations allow. If not allowed, contain for proper disposal at an approved waste disposal facility. Follow federal, state and local regulations for waste.

#### Section 14. Transport Information

D.O.T. Classification: Not hazardous by DOT.

#### Section 15. Regulations (Not meant to be all inclusive-selected regulation listed)

TSCA Status: The components of this solution are listed on the TSCA Inventory.

RCRA Status: No.

SARA: No.

Risk Phrases: R 21/22 Harmful by skin contact or if swallowed.

Safety Phrases: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WHMIS Information (Canada): Not applicable.

#### Section 16. Other Information

HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel only. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The SDS was prepared carefully and represents the best data currently available to us; however, HPS does not certify the data on the SDS.

Certified values for this material are given only on the Certificate of Analysis.

Theodore C. Rains, Ph.D.