

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 399.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Hydrogen Sulfide Solution

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Hydrogen Sulfide (7783-06-4) <4%, and Water (7732-18-5) >96%.

CAS#: None established.

Section 3 — Hazards Identification

Colorless liquid; rotten egg odor.

Hazardous vapor; strong irritant to eyes and mucous membranes; moderately toxic by ingestion, and inhalation.

Avoid ingestion, inhalation and skin absorption.

When heated, emits toxic and flammable fumes of hydrogen sulfide.

FLINN AT-A-GLANCE

Health-2

Flammability-1

Reactivity-1

Exposure-1

Storage-2

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable liquid.

When heated to decomposition, emits toxic and flammable fumes of hydrogen sulfide.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #5. Store with sulfides, phosphides, carbides and nitrides.

Store away from sources of heat. Store in a Flinn Chem-Saf bag and then inside a Flinn Saf-Stor can. Keep container tightly closed.

Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 10 ppm (gas), STEL 15 ppm (gas) (ACGIH, ACGIH)

Section 9 — Physical and Chemical Properties

Colorless liquid; rotten egg odor.

Boiling Point: 100 C

Solubility: Soluble in water and alcohol.

4% hydrogen sulfide (w/v)

Section 10 — Stability and Reactivity

Shelf life: Fair, reacts with oxygen to precipitate elemental sulfur. Keep tightly closed.

Reactivity: Reacts with oxidants.

Section 11 — Toxicological Information

Acute effects: Irritant

ORL-RAT LD50: N.A.

Chronic effects: N.A.

IHL-RAT LC50: 713 ppm/hr as H2S vapor

Target organs: N.A.

SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method #23 is one option.

Section 14 — Transport Information

Shipping Name: N/A

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

Section 15 — Regulatory Information

Not listed.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals.

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Flinn Is No. 1 in Safety

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