FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 397.00
Revision Date: March 14, 2001

Section 1 — Chemical Product and Company Identification

Hydrogen Gas

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 Gas

CAS#: 1333-74-0

Section 3 — Hazards Identification

Colorless, odorless gas.
Asphyxiation if in high concentrations.
Extremely flammable gas, severe fire hazard.

FLINN AT-A-GLANCE
Health-0
Flammability-3
Reactivity-0
Exposure-0
Storage-0

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 with mild soap and water.

Section 5 — Fire Fighting Measures

Extremely flammable gas, severe fire hazard.
Gas cylinder or lecture bottle contents under pressure.
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
H-0
F-4
R-0

Section 6 — Accidental Release Measures

Remove all ignition sources. Ventilate area of gas leak or remove lecture bottle or gas cylinder to a fume hood or outside.

Section 7 — Handling and Storage

Store with the bottled gases in a secure area.

Section 8 — Exposure Controls , Personal Protection

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

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Section 9 — Physical and Chemical Properties

Colorless, odorless gas.
Solubility: Slightly soluble in water and alcohol.
Formula: H2
Formula Weight: 2.02

Boiling Point: -252 C
Specific Gravity: 0.0695
Melting Point: -259.2 C

Section 10 — Stability and Reactivity

Avoid contact with oxidizers, heat, sparks and open flame.
Shelf Life: Indefinite.

Section 11 — Toxicological Information

Acute effects: Nausea, dizziness and headache
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD50: N.A.
IHL-RAT LC50: 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.
One option is to completely empty cylinder in an operating fume hood or outdoors. Avoid flames and sparks. Dispose of empty

Section 14 — Transport Information

Shipping Name: Hydrogen, compressed
Hazard Class: 2.1, Flammable gas
UN Number: UN1049

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-605-7), RCRA code D001.

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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