

Section 1: Product and Company Identification

Absolute Accuracy
4591 S Wayside Dr
Houston, TX 77087
(832) 571-2387

Product Code: 146

Section 2: Hazards Identification



Danger

Hazard Classification:

Flammable (Category 1)
Gases Under Pressure

Hazard Statements:

Contains gas under pressure; may explode if heated
Extremely flammable gas

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Response:

Eliminate all ignition sources if safe to do so.
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Storage:

Protect from sunlight.
Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

CAS #

1333-74-0

Chemical Substance

HYDROGEN

Section 4: First Aid Measures

Skin Contact

Wash exposed skin with soap and water.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, regular dry chemical Large fires: Flood with fine water spray.

Section 6: Accidental Release Measures

Personal Precautions

Keep unnecessary people away, isolate hazard area and deny entry. Do not touch spilled material. Ventilate closed spaces before entering.

Methods for Cleanup

Stop leak if possible without personal risk.

Section 7: Handling and Storage

Handling

Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

HYDROGEN: ACGIH (simple asphyxiant)

Engineering Controls

Handle only in fully enclosed systems.

Eye Protection

Eye protection not required, but recommended.

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance
Gas	Colorless

Flash Point	Flammability
Flammable gas (burns at all ambient temperatures)	Not available

Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity	Water Solubility	pH	Odor Threshold	Evaporation Rate	Viscosity
-423 F (-253 C)	-434 F (-259 C)	760 mmHg @ -253 C	0.07 (Air=1)	Not applicable	1.82% @ 20 C	Not applicable	Not available	Not applicable	0.008957 cP @ 26.8 C

Molecular Weight	Molecular Formula
2	H2

Section 10: Stability and Reactivity

Stability
Stable at normal temperatures and pressure.

Hazardous Decomposition Products
Miscellaneous decomposition products

Section 11: Toxicology Information

Acute Effects

Oral LD50
Not available

Eye Irritation
Not irritating

Chronic Effects

Carcinogenicity
Not available

Section 12: Ecological Information

Fate and Transport

Eco toxicity
Fish toxicity: Not available Invertebrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number
Hydrogen, compressed	UN1049

Canadian Transportation of Dangerous Goods

Shipping Name
Hydrogen, compressed

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections
Not regulated.

SARA 370.21

Acute
Yes

SARA 372.65

Not regulated.

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65
Not regulated.

Canadian Regulations

WHMIS Classification
A, B1.

National Inventory Status

US Inventory (TSCA)
Listed on inventory.

Section 16: Other Information

NFPA Rating
HEALTH=0 FIRE=4 REACTIVITY=0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard