



Material Safety Data Sheet
Hydrogen Sulfide Water

Section 1 - Chemical Product and Company Identification

MSDS Name:

Hydrogen Sulfide Water

Catalog Numbers:

LC15470

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7783-06-4	Hydrogen sulfide	0.04%

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless

May cause irritation by all exposure routes.

Target Organs: None known.

Potential Health Effects**Eye:**

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause irritation of the digestive tract.



Material Safety Data Sheet

Hydrogen Sulfide Water

Inhalation:

Inhalation may cause pulmonary edema, weakness, coma, death.

Chronic:

Prolonged or repeated eye contact may cause conjunctivitis. Chronic ingestion may cause neurological symptoms. Repeated inhalation may cause tissue damage, neurologic effects, digestive irritation, weight loss. Repeated skin exposure may cause furunculosis.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

Get medical aid at once. If victim is conscious, give 2-4 glasses of water and induce vomiting.

Inhalation:

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligible fire and explosion hazard when exposed to heat or flame. Move container if possible, avoid breathing vapors or dust. Hydrogen sulfide gas is extremely flammable and an explosive hazard.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS # 7783-06-4: health-4; flammability-4; reactivity-0

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal. May be neutralized with slaked lime, limestone, or sodium bicarbonate to a pH 7.



Material Safety Data Sheet

Hydrogen Sulfide Water

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

Storage:

Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Provide local exhaust or general dilution ventilation.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Hydrogen sulfide	(10 ppm) TWA;(15 ppm) STEL	None of the components are on this list.	C 20 ppm;

OSHA Vacated PELs

Hydrogen sulfide: 10 ppm TWA; 14 mg/m³ TWA

Personal Protective Equipment**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Not required for normal use. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Rotten egg-like

pH: 4.5

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.



Material Safety Data Sheet

Hydrogen Sulfide Water

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: No information found.

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials

Metals and metal oxides, alkalis, silver salts.

Hazardous Decomposition Products

Sulfur oxides (SO_x), including sulfur oxide and sulfur dioxide.

Hazardous Polymerization

Has not been reported

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7783-06-4: MX1225000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7783-06-4:

Inhalation, mouse: LC50 =634 ppm/1H

Inhalation, rat: LC50 =444 ppm.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7783-06-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.



Material Safety Data Sheet
Hydrogen Sulfide Water

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7783-06-4 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ)

CAS# 7783-06-4: final RQ = 100 pounds (45.4 kg)

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

CAS# 7783-06-4 is considered highly hazardous by OSHA.

US State

State Right to Know

Hydrogen sulfide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7783-06-4 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7783-06-4 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: February 6, 1999

Revision Date: December 5, 2008



Material Safety Data Sheet
Hydrogen Sulfide Water

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