

SDS

SAFETY DATA SHEET

Oakwood Products, Inc
730 Columbia HWY N
Estill, SC 29918
www.oakwoodchemical.com

Phone Numbers:

Product Information	803-739-8800
Transportation Emergency	800-451-8346
Outside the USA	760-602-8700

MATERIAL IDENTIFICATIONNAME: **Hydrogen Sulfide**

CAS#: [7783-06-4]

CAT#: 101504

For R&D use only.

HAZARDS IDENTIFICATION**GHS Classification**

Flammable gases (Category 1)

Gases under pressure (Compressed gas)

Acute toxicity, inhalation (Category 1)

Hazardous to the aquatic environment, acute hazard (Category 1)

GHS Label elements, including precautionary statements

Pictograms



Signal Word

Danger

Hazard Statement(s)

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H330	Fatal if inhaled
H400	Very toxic to aquatic life

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P284	Wear respiratory protection.
P310	Immediately call a POISON CENTER or doctor/physician.

COMPOSITION/INFORMATION ON INGREDIENTS

Formula : H₂S
Molecular Weight : 34.08

CAS	Description	Concentration
7783-06-4	Hydrogen Sulfide	

FIRST AID MEASURES**In case of eye contact**

Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Seek medical attention.

In case of skin contact

Wash thoroughly with soap and plenty of water. Seek medical attention.

If inhaled

Remove victim from source of exposure to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

If swallowed

Do not induce vomiting. Give water to victim to drink. Seek medical attention.

FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and explosion hazards/decomposition of product

emits toxic fumes under fire conditions.

ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing fumes, vapors, mists or gas. Ventilate area. Remove all sources of ignition. Evacuate personnel.

Environmental precautions

Prevent further leakage if safe to do so.

Methods and materials for containment and clean up

Absorb spills on sand or vermiculite and place in closed container for disposal.

HANDLING AND STORAGE

Precautions for safe handling

Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling.

Precautions for safe storage

Keep container tightly closed. Store in a cool, dry, well-ventilated area.

EXPOSURE CONTROL/PERSONAL PROTECTION**Exposure Limits:**

		TWA	
Component Name (CAS)	Reference	ppm	mg/m3
Hydrogen Sulfide (7783-06-4)	OSHA	–	(2)

Personal protective equipment**Eye/face protection**

Wear protective safety goggles or face shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hand/skin protection

Avoid all direct contact with product.
Wear chemical-resistant gloves.
Wear protective clothing and boots.
After contact with skin, wash immediately.

Respiratory protection

Ensure adequate ventilation during use. Approved respiratory equipment must be used when airborne concentrations are unknown or exceed the exposure limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	gas
Odour	no data available
Odour Threshold	no data available
Melting point/Freezing Point	-85°C
Boiling Point	-60°C
Flash Point	no data available
Evaporation Rate	no data available
Flammability (solid, gas)	no data available
Upper/Lower Flammability or Explosive limits	no data available
Vapour pressure	no data available
Relative Density	no data available
Solubility(ies)	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Refractive Index	no data available

STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents and strong bases.

Hazardous decomposition products

May evolve and sulfur oxides.

TOXICOLOGICAL INFORMATION

Acute toxicity

Inhalation LC50

Mouse - 1 h - 634 ppm

Rat - 444 ppm

Remarks: Lungs, Thorax, or Respiration:Other changes. Diarrhoea Kidney, Ureter, Bladder:Urine volume increased

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

Exposure Routes

Additional Information

RTECS: MX1225000

To the best of our knowledge, the health hazards of this material have not been fully investigated.

ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish:

LC50 - Pimephales promelas (fathead minnow) - 0.016 mg/l - 96.0 h

Acute EC50: 770 ug/L-Fresh Water

Species: Crustaceans-Amphipod-Crangonyx-richmondensis lauren-10mm

Exposure: 48 hours

Acute EC50: 540 ug/L-Fresh Water

Species: Crustaceans-Amphipod-Crangonyx-richmondensis lauren-10mm

Exposure: 48 hours

Acute EC50: 7 ug/L-Fresh Water

Species: Fish-Fathead minnow-Pimephales promelas-FRY

Exposure: 96 hours

Acute EC50: 4 ug/L-Fresh Water

Species: Fish-Lake whitefish-Coregonus clupeaformis-Yolk-sac fry

Exposure: 96 hours

Acute EC50: 3.2 ug/L-Fresh Water

Species: Fish-Asian redtail catfish-Hemibagrus nemurus

Exposure: 96 hours

Acute EC50: 3 ug/L-Fresh Water

Species: Fish-Lake whitefish- Coregonus clupeaformis-Yolk-sac fry

Exposure: 96 hours

Acute EC50: <2 ug/L-Fresh Water

Species: Fish-Yellow perch-Perca flavescens-Yolk-sac fry

Exposure: 96 hours

Acute EC50: 2 ug/L-Fresh Water

Species: Fish-Lake whitefish-Coregonus clupeaformis-Yolk-sac fry

Exposure: 96 hours

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

DISPOSAL CONSIDERATIONS

Dissolve in or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all Federal, State and local laws.

TRANSPORT INFORMATION**DOT**

Hydrogen sulfide
2.3, 2.1
UN1053
Inhalation Zone B
Reportable Quantity (RQ): 100 lbs

IMDG

Hydrogen sulphide
2.3, 2.1
UN1053
Inhalation Zone B
EMS-No: F-D, S-U
Marine Pollutant: No

IATA

Hydrogen sulphide
2.3, 2.1
UN1053
Inhalation Zone B
IATA Passenger: Forbidden for transport
IATA Cargo: Forbidden for transport

REGULATORY INFORMATION**SARA 302 Components**

SARA 302: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302:

	CAS
Hydrogen Sulfide	7783-06-4

SARA 313 Components

SARA 313: The following chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313:

	CAS
Hydrogen Sulfide	7783-06-4

New Jersey Right to Know Components

This product contains a chemical on the New Jersey Right to Know Components List.

	CAS
Hydrogen Sulfide	7783-06-4

California Prop. 65 Components

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

OTHER INFORMATION

Version : 1.2

Revision Date : 1/2/2017

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oakwood shall not be held liable for any damage resulting from handling or from contact with the above product.