

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Sodium Sulfide Hydrate
CAS number	1313-84-4
Synonyms	No information available.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals	Category 1
Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Skin Corrosion/irritation	Category 1
Serious Eye damage/Eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system	

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

May be corrosive to metals. Toxic if swallowed. Toxic if contact with skin. Causes severe skin burns and eye damage.

Precautionary Statements:

Prevention:

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container.

Response:

Immediately call a POISON CENTER or doctor/physician

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

Rinse mouth. Do NOT induce vomiting.

Spills:

Absorb spillage to prevent material damage.

Storage:

Store locked up. Store in corrosive resistant polypropylene container with a resistant inliner.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life. Contact with acids liberates toxic gas. May form combustible dust concentrations in air.

### SECTION 3: Composition/information on ingredients

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Sodium sulfide hydrate	-	27610-45-3	>95%
Sodium sulfide	-	1313-82-2	-

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

## General advice

<b>If inhaled</b>	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
<b>In case of skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>If swallowed</b>	Do not induce vomiting. Call a physician or Poison Control Center immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam

**Unsuitable extinguishing media** No information available.

### 5.2 Specific hazards arising from the substance or mixture

Corrosive Material. Fine dust dispersed in air may ignite. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 5.4 Further information

**Flash Point** No information available.

**Autoignition Temperature** No information available.

**Explosion limits**

Upper No data available.  
 Lower No data available.  
 Sensitivity to Mechanical Impact No information available.  
 Sensitivity to Static Discharge No information available.  
 NFPA

Health	Flammability	Instability	Physical hazards
3	1	1	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

### 6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

### 6.3 Methods and materials for containment and cleaning up

Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Keep away from acids.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight. Corrosives area. Store under an inert atmosphere. Keep refrigerated.

#### Incompatibilities

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **US. ACGIH Threshold Limit Values**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

#### **Appropriate engineering controls**

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protective equipment**

##### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### **Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

##### **Respiratory protection**

Follow the OSHA respirator regulations found in 19 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

##### **Control of environmental exposure**

No information available.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available.
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No data available.
Lower	No data available.
Vapor Pressure	No information available.
Vapor Density	No information available.
Density	No information available.
Solubility	No information available.
Partition coefficient; n-octanol/water	No data available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	No information available.
Molecular Formula	Na <sub>2</sub> S . X H <sub>2</sub> O
Molecular Weight	78.04
VOC Content(%)	No information available.
Oxidizing properties	No information available.

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Moisture sensitive. Air sensitive. Light sensitive.

### 10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas. Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to light. Exposure to moist air or water.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids.

### 10.6 Hazardous decomposition products

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Product Information, Component Information**

**Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium sulfide	208 mg/kg (rat)	340 mg/kg (rabbit)	Not listed

**Skin corrosion/irritation**

Causes burns by all exposure routes.

**Serious eye damage/eye irritation**

Causes burns by all exposure routes

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium sulfide hydrate	27610-45-3	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium sulfide	1313-82-2	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

Respiratory system

**Specific target organ toxicity - repeated exposure**

None known

**Reproductive toxicity**

No information available.

**Chronic effects**

No information available.

**11.2 Additional Information**

No additional information available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product		Species	Test Results
Sodium sulfide hydrate	27610-45-3	Microtox (EC50)	4.29 mg/L 15 min
Sodium sulfide	1313-82-2	Microtox (EC50)	4.29 mg/L 15 min
		Freshwater Fish (LC50)	7.7-29.1 mg/L 96h
		Water Flea (EC50)	2.1 mg/L 48 h

## 12.2 Persistence and degradability

No information available

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Component	log Pow
Sodium Sulfide	3.5

## 12.5 Results of PBT and vPvB assessment

No information available

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

UN-No UN1849  
 Proper Shipping Name SODIUM SULFIDE, HYDRATED  
 Hazard Class 8  
 Packing Group II

### IMDG

UN-No UN1849  
 Proper Shipping Name SODIUM SULFIDE, HYDRATED  
 Hazard Class 8  
 Packing Group II



**IATA**  
**UN-No** UN1849  
**Proper Shipping Name** SODIUM SULFIDE, HYDRATED  
**Hazard Class** 8  
**Packing Group** II

## SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not regulated

**SARA 304 Emergency release notification**  
Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
Listed, Acute Health Hazard

**SARA 313 (TRI reporting)**  
Not regulated

### Other federal regulations

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

**Safe Drinking Water Act**  
Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**  
Not listed

### US state regulations

**US. Massachusetts RTK - Substance List**  
Listed (Sodium sulfide)

**US. New Jersey Worker and Community Right-to-Know Act**

Listed (Sodium sulfide)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.