

# 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

## 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

Acute oral toxicity

Acute dermal toxicity

Skin Corrosion/irritation

Serious Eye damage/Eye irritation

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 1

Category 3

Target Organs - Respiratory system

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# 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 thoroungly 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

resuse.

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

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#### General advice

If inhaled 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.

In case of skin contact Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Immediate medical attention is required.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Immediate medical attention is required.

**If swallowed** 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 CO2, dry chemical, dry sand, alcohol-resistant foam

Unsuitable extinguishing media No information available.

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

Corrisive 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 fre, 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** 

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UpperNo data available.LowerNo data available.

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available.
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 ventillation. 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.

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## **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 specifc 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 specifc 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, espicially 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**

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## 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 PressureNo information available.Vapor DensityNo information available.DensityNo information available.SolubilityNo information available.

Partition coefficient; n-octanol/water No data available.

Autoignition Temp
Decomposition Temp
Viscosity
No information available.
No information available.
No information available.

Molecular Formula Na2 S . X H2 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 senstive.

#### 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

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# **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				
Sodium sulfide	1313-82-2	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

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Product		Species	Test Results
Sodium sulfide hydrate	27610-45-3	Microtox (EC50)	4.29 mg/L 15 min
	1313-82-2	Microtox (EC50)	4.29 mg/L 15 min
Sodium sulfide		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 | |

**IMDG** 

**UN-No** UN1849

Proper Shipping Name SODIUM SULFIDE, HYDRATED

Hazard Class 8
Packing Group |

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IATA

**UN-No** UN1849

Proper Shipping Name SODIUM SULFIDE, HYDRATED

Hazard Class 8
Packing Group | |

# **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)

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# 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**

Issue date: 07/15/2024 Revision 1: 07/03/2025

#### **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.

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