



UNIVAR

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For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

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PRODUCT NAME: SODIUM SULFIDE, FLAKE (HYDRATED)

MSDS NUMBER: 75013

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SUPERSEDES: NEW

ISSUED BY: 008251

Material Safety Data Sheet

Material Name: SODIUM SULFIDE, FLAKE (HYDRATED)

Section 1 - Chemical Product and Company Identification

Chemical Name: SODIUM SULFIDE HYDRATE OR SODIUM SULPHIDE HYDRATE

Product Use: For Commercial Use

Synonyms: Disodium monosulfide, Disodium sulfide, Disodium sulphide, Sodium monosulfide, Sodium monosulphide.

Supplier Information

Chem One Ltd.
8017 Pinemont Drive, Suite 100
Houston, Texas 77040-6519

Phone: (713) 896-9966
Fax: (713) 896-7540
Emergency # 1-800-424-9300 or
(703) 527-3887

General Comments: FOR COMMERCIAL USE ONLY; NOT TO BE USED AS A PESTICIDE.
NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

Section 2 - Composition / Information on Ingredients

CAS #	Component	Percent
27610-45-3	Sodium sulfide hydrate	60-62
7732-18-5	Water	38-40

** Commercial Sodium Sulfide Hydrate is a concentrated mixture of several hydrated forms. Its appearance is yellow flakes containing 60 to 62% Sodium Sulfide. The CAS # 1313-82-2 is for Sodium Sulfide, Anhydrous. Sometimes in literature, the CAS # for Sodium Sulfide Nonahydrate is used (CAS # 1313-84-4) as Na₂S 9H₂O.

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Section 3 - Hazards Identification

Emergency Overview

Sodium Sulfide hydrate is a yellow solid in flake form which turns gray upon exposure to light and air. May be fatal if inhaled or swallowed. Corrosive or irritating to the eyes, skin, respiratory tract, or gastrointestinal tract. Releases hydrogen sulfide on contact with water and under fire conditions. The accumulation of dusts of this product can create a serious hazard of explosion. In solution, product vapors may be flammable and may form explosive mixture with air. Contact with acids will release very toxic and flammable hydrogen sulfide. Closed containers exposed to heat may explode.

Hazard Statements

DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED OR INHALED. CORROSIVE OR SEVERELY IRRITATING TO THE EYES, SKIN, RESPIRATORY TRACT, OR GASTROINTESTINAL TRACT. MAY CAUSE ALLERGIC SKIN REACTION. Do not allow product to contact eyes or skin. Do not breathe dusts. Do not take internally. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

Potential Health Effects: Eyes

Corrosive to the eyes. Product can cause severe eye damage. Symptoms may include tearing, burning, redness, pain and blurred vision. Prolonged exposure may cause permanent damage or blindness.

Potential Health Effects: Skin

Product is severely irritating or corrosive to the skin. Prolonged or repeated contact may cause an allergic skin sensitization reaction, resulting in rash, swelling, itching, and possibly blistering of skin.

Potential Health Effects: Ingestion

Corrosive. May be fatal if swallowed. May cause burns to the mouth and throat. Symptoms may include vomiting, nausea, diarrhea, and abdominal pain.

Potential Health Effects: Inhalation

Product is irritating to the respiratory system. Symptoms may include coughing, sore throat, and shortness of breath. Prolonged overexposure could lead to a build-up of fluid in the lungs, headaches, and dizziness. Severe overexposure to hydrogen sulfide gas (produced when sodium sulfide contacts water or in fire conditions) may result in memory loss, paralysis of facial muscles, nerve damage, pulmonary edema, unconsciousness, or death.

HMIS Ratings: Health Hazard : 3 Fire Hazard: 1 Physical Hazard: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* = Chronic hazard

Section 4 - First Aid Measures

First Aid: Eyes

Immediately flush the contaminated eye with plenty of water for 15 minutes. Get immediate medical attention.

First Aid: Skin

If irritation occurs, wash gently and thoroughly with water and non-abrasive soap. If irritation persists, seek medical advice. Completely decontaminate clothing, shoes, and leather goods before reuse.

First Aid: Ingestion

DO NOT INDUCE VOMITING. If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to a victim who is unconscious or having convulsions. Contact a physician or poison control center immediately.

First Aid: Inhalation

Remove source of contamination or move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get immediate medical attention.

First Aid: Notes to Physician

Provide general supportive measures. Consult nearest Poison Control Center for all exposures except minor instances of inhalation or skin contact. Amyl nitrite or sodium nitrite, although controversial, have been recommended as antidotes for hydrogen sulfide exposure by preventing severe anoxia.

Section 5 - Fire Fighting Measures

Flash Point: Not applicable

Method Used: Not applicable

Upper Flammable Limit (UEL):

Lower Flammable Limit (LEL):

Not available

Not available

Auto Ignition: Not available

Flammability Classification: Not available

Rate of Burning: Not available

General Fire Hazards

Product will burn when exposed to heat or flame. Caution: Fire may produce toxic gases. Product gives off flammable vapors that may form an explosive mixture with air. Closed containers subject to heat may explode. Once moist, this compound may self-ignite upon drying in air. It is important to note that large dust clouds of this product have the potential to ignite explosively.

Hazardous Combustion Products

Sulfur oxides and disodium oxide. Releases hydrogen sulfide on contact with water and under fire conditions.

Extinguishing Media

Use flooding quantities of water. Use water to cool fire-exposed containers. Do not use carbon dioxide.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing. Move containers from fire area, if this is without risk. Fight fire from a safe distance.

NFPA Ratings: Health Hazard: 3 Fire Hazard: 1 Physical Hazard: 1 Other:
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6 - Accidental Release Measures

Containment Procedures

Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with product (see Section 10 for incompatibility information).

Clean-Up Procedures

Small releases can be cleaned-up wearing gloves, goggles and suitable body protection. In case of a large spill (in which excessive dusts can be generated), clear the affected area, protect people, and respond with trained personnel. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean-up. Prevent spill rinsate from contamination of storm drains, sewers, soil or groundwater.

Evacuation Procedures

Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. In case of large spills, follow all facility emergency response procedures.

Special Procedures

Remove soiled clothing and launder before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

Section 7 - Handling and Storage

Handling Procedures

All employees who handle this material should be trained to handle it safely. Do not breathe dust. Avoid all contact with skin and eyes. Use this product only with adequate ventilation. Wash thoroughly after handling. Care should be taken to avoid the accumulation of dusts, which can create a serious dust-explosion hazard. Remove contaminated clothing immediately. Keep in dust-tight containers. Keep away from all heat sources. Keep away from all ignition sources. Separate from water, acids, oxidizing materials, and carbon dioxide. Prevent release of fumes or dusts into the workplace.

Storage Procedures

Keep container tightly closed when not in use. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Storage areas should be made of corrosion- and fire-resistant materials. Post warning and "NO SMOKING" signs in storage and use areas, as appropriate. Use corrosion-resistant structural materials, lighting, and ventilation systems in the storage area.

Floors should be sealed to prevent absorption of this material. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers).

Empty containers may contain residual particulates; therefore, empty containers should be handled with care. Do not cut, grind, weld, or drill near this container. Never store food, feed, or drinking water in containers that held this product. Keep this material away from food, drink and animal feed. Do not store this material in open or unlabeled containers. Limit quantity of material stored.

Section 8 - Exposure Controls / Personal Protection

Exposure Guidelines

A: General Product Information

If hydrogen sulfide is produced during the handling of sodium sulfide, follow the applicable exposure limit for this gas. The ACGIH TWA for hydrogen sulfide is 14 mg/m³. The ACGIH STEL for hydrogen sulfide is 21 mg/m³.

The exposure limits given are for Hydrogen Sulfide.

ACGIH:	10 (NIC = 5) ppm, TWA (NIC = Notice of Intended Change)
	15 ppm, STEL
OSHA:	20 (ceiling), ppm, STEL
	50 ppm (ceiling), 10 minute peak, once per shift, STEL
NIOSH	10 ppm (ceiling), 10 minutes, STEL
DFG MAKs	10 ppm, TWA
	2 MAK, 10 minute momentary value, PEAK

Engineering Controls

Use mechanical ventilation such as dilution and local exhaust. Use a corrosion-resistant, grounded ventilation system and exhaust directly to the outside. Supply ample air replacement. Provide dust collectors with explosion vents. Because of the high potential hazard associated with this material, stringent control measures such as enclosure or isolation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent Standards of Canada. Please reference applicable regulations and standards for relevant details.

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields or chemical goggles. If necessary, refer to U.S. OSHA 29 CFR 1910.133.

Personal Protective Equipment: Skin

Use impervious gloves. Gloves should be tested to determine their suitability for prolonged contact with this material. If necessary, refer to U.S. OSHA 29 CFR 1910.138.

Personal Protective Equipment: Respiratory

If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a fullfacepiece pressure/demand SCBA or a full facepiece,

supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998). If airborne concentrations are above the applicable exposure limits, use acid/gas cartridge respirator or other NIOSH-approved respiratory protection. The following NIOSH Guidelines for the possible decomposition product, hydrogen sulfide, are presented for further information.

Up to 100 ppm: Any Powered, Air-Purifying Respirator (PAPR) with cartridge(s) providing protection against Hydrogen Sulfide, or any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Hydrogen Sulfide, or any Supplied-Air Respirator (SAR), or any Self-Contained Breathing Apparatus (SCBA) with a full facepiece.

Emergency or Planned Entry into Unknown Concentrations or IDLH Conditions: Any SCBA that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or any SAR that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary SCBA operated in pressure-demand or other positive-pressure mode.

Escape: Any Air-Purifying, Full-Facepiece Respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Hydrogen Sulfide, or any appropriate escape-type, self-contained breathing apparatus.

Personal Protective Equipment: General

Have an eyewash fountain and safety shower available in the work area.

Personal protective equipment and clothing must be in accordance with 29 CFR 1910.132.

Section 9 - Physical & Chemical Properties

Physical Properties: Additional Information

The data provided in this section are to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

Appearance:	Yellow Flake (turns gray upon exposure to light and air)
Odor:	Hydrogen sulfide
Physical State:	Solid
pH:	Strongly alkaline
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point:	Not applicable
Melting Point:	122 deg F (50 deg C)
Solubility (H2O):	18 g/100 mL water @ 25 deg C
Specific Gravity:	1.427 @ 16 deg C (water = 1)
Freezing Point:	Not applicable
Particle Size:	Not determined
Softening Point:	Not applicable
Evaporation Rate:	Not applicable
Viscosity:	Not applicable
Percent Volatile:	Not available
Bulk Density:	0.65 g/cc (flake)
Chemical Formula:	Na ₂ S 3H ₂ O; Na ₂ S xH ₂ O
Molecular Weight:	78.05 as Na ₂ S contains approx. 38% water

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability

Moderately stable. Aqueous solutions and moist solid may slowly give off hydrogen sulfide gas.

Chemical Stability: Conditions to Avoid

Avoid contact with water, heat, ignition and percussion sources, and incompatible materials listed below under "Incompatibility". Finely divided material may explode in air.

Incompatibility

Acids - releases highly toxic and flammable hydrogen sulfide. Oxidizing agents - can react violently and form sulfur dioxide. Diazonium salts - react explosively. N,N-Dichloromethylamine - reacts explosively. Carbon - reaction releases heat. Contact with water releases hydrogen sulfide. Sodium Sulfide is incompatible with combustible materials.

Hazardous Decomposition

Sulfur oxides and disodium oxide. Releases hydrogen sulfide on contact with water and under fire conditions.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute Toxicity

A: General Product Information

Sodium Sulfide Hydrated is corrosive and may cause severe irritation and possibly burns to the skin, eyes, respiratory tract, and digestive system. A 25-27% solution of sodium sulfide hydrated caused skin corrosion in rabbits when exposed to the skin for 4 hours. Effects of exposure (inhalation, ingestion, or skin contact) may be delayed. Ingestion may result in decomposition to hydrogen sulfide in stomach, with subsequent systemic poisoning. Frequent exposure to low concentrations leads to tolerance, but exposure to high concentrations may cause sensitization reactions (sulfides). Probable oral lethal dose (human) is 50-500 mg/kg. Severe overexposure to hydrogen sulfide gas (produced when sodium sulfide contacts water or in fire conditions) may result in memory loss, paralysis of facial muscles, nerve damage, pulmonary edema, unconsciousness, or death.

B: Component Analysis - LD50/LC50

Sodium sulfide (1313-82-2)

Oral LD50 Mouse: 205 mg/kg; Oral LD50 Rat: 208 mg/kg; Intraperitoneal LD50 147 mg/kg

B: Component Analysis - TDLo/LDLo

Sodium sulfide (1313-82-2)

Inhalation LCLo Rat 2 mg/kg 17 weeks-intermittent; Behavioral: changes in motor activity (specific assay); Blood: pigmented or nucleated red blood cells; Nutritional and Gross Metabolic: weight loss or decreased weight gain

Carcinogenicity

A: General Product Information

Information not available.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

Information not available.

Neurotoxicity

Information not available.

Mutagenicity

Information not available.

Teratogenicity

Information not available.

Other Toxicological

Information None

Section 12 - Ecological Information

Ecotoxicity

No information available for Sodium Sulfide Hydrated (CAS # 27610-45-3). The following data are available for the Anhydrous form of Sodium Sulfide (CAS # 1313-92-2).

TLm (Bluegill sunfish) 48 hours = 61 ppm (freshwater)

Environmental Fate

No information available.

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

EPA Waste Numbers for corrosivity (D002) and reactivity (D003) may be required.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Review federal, provincial, and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

Section 14 - Transportation Information

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

US DOT Information

UN/NA #: UN 1849

Shipping Name: Sodium Sulfide, hydrated

Hazard Class: 8

Packing Group: II
Required Label(s): 8

Additional Shipping Information

The Limited Quantities of Division 8 materials exception (49 CFR 173.154 (b)) may be applicable to shipments of Sodium Sulfide, hydrated if each inner packaging does not exceed 1.0 kg (2.2) pounds and packaged in strong outer packages not to exceed 30 kg (66 pounds). Such shipments need not be marked with the Proper Shipping Name of the contents, but shall be marked with the UN Number (1849) of the contents, preceded by the letters "UN", placed within a diamond. The width of the line forming the diamond shall be at least 2 mm; the number shall be at least 6 mm high For a shipment by air the class 8 label will be required.

International Air Transport Association (IATA):

For Shipments by Air transport: This information applies to air shipments both within the U.S. and for shipments originating in the U.S., but being shipped to a different country

UN/NA #: UN 1849

Proper Shipping Name: Sodium sulphide, hydrated

Hazard Class: 8 (Corrosive)

Packing Group: II

Passenger & Cargo Aircraft Packing Instruction: 814

Passenger & Cargo Aircraft Maximum Net Quantity: 15 kg

Limited Quantity Packing Instruction (Passenger & Cargo Aircraft): Y814

Limited Quantity Maximum Net Quantity (Passenger & Cargo Aircraft): 5 kg

Cargo Aircraft Only Packing Instruction: 816

Cargo Aircraft Only Maximum Net Quantity: 50 kg

Special Provisions: None

ERG Code: 8L

Limited Quantity Shipments: Such shipments must be marked with the proper shipping name, UN number. and must be additionally marked with the words "LIMITED QUANTITIES" or "LTD. QTY". The total weight of each outer packaging cannot exceed 30 kg (66 pounds). For a shipment by air the class 8 label will be required.

International Maritime Organization (I.M.O.) Classification

For shipments via marine vessel transport, the following classification information applies.

UN/NA #: UN 1849

Proper Shipping Name: SODIUM SULPHIDE, HYDRATED

Hazard Class: class 8

Packing Group: II

Special Provisions: None

Limited Quantities: 1 kg

Packing Instructions: P002

IBC Instructions: IBC 08

IBC Provisions B2, B4

EmS: F-A, S-B

Stowage and Segregation: Category A "Away from: acids"

Limited Quantity Shipments: Such shipments need not be marked with the Proper Shipping Name of the contents, but shall be marked with the UN Number (1849) of the contents, preceded by the letters "UN" placed within a diamond. The width of the line forming the diamond shall be at least 2 mm; the number shall be at least 6 mm high. The total weight of each outer packaging cannot exceed 30 kg (66 pounds).

Section 15 - Regulatory Information

US Federal Regulations

A: General Product Information
No additional information.

B: Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4). SARA 302 There are no specific Threshold Planning Quantities for Sodium Sulfide, Hydrated. The default Federal MSDS (EHS TPQ) submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

C: Sara 311/312 Tier II Hazard Ratings:

Component	CAS #	Fire Hazard	Reactivity Hazard	Pressure Hazard	Immediate Health Hazard	Chronic Health Hazard
Sodium Sulfide Hydrated	27610-45-3	No	Yes	No	Yes	Yes

State Regulations

A: General Product Information Other state regulations may apply.

B: Component Analysis - State The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium Sulfide Hydrated	27610-45-3	No	No	No	No	No	No
Sodium Sulfide	1313-82-2	No	No	Yes	No	Yes	No

Other Regulations

A: General Product Information

U.S. Export Administration Regulations (EAR) (15 CFR Parts 736, 738, 740, 742, 745, 770 and 774): Under the Chemical Weapons Convention (CWC) Sodium Sulfide is on the list of Other Australia Group-controlled precursor chemicals not also identified as Schedule 1, 2 or 3 chemicals.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium Sulfide Hydrated	27610-45-3	No	No	Unlisted
Sodium Sulfide	1313-82-2	Yes	Yes	Yes
Water	7732-18-5	Yes	Yes	Yes

Note: Although Sodium Sulfide Hydrated (CAS # 27610-45-3) is not specifically listed on the U.S. TSCA Inventory, it is excepted from listing as a hydrate of the anhydrous form of Sulfur Sulfide (CAS # 1313-82-2). This also applies to the Canadian DSL Inventory.

ANSI LABELING (Z129.1):

DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED OR INHALED. CORROSIVE OR SEVERELY IRRITATING TO THE EYES, SKIN, RESPIRATORY TRACT, OR GASTROINTESTINAL TRACT. MAY CAUSE ALLERGIC SKIN REACTION. Do not allow product to contact eyes or skin. Do not breathe dusts. Do not take internally. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Wear gloves, goggles, faceshields, suitable body protection, and NIOSH-approved

respiratory protection, as appropriate. Wash thoroughly after handling.
FIRST-AID: In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If inhaled, remove to fresh air. If ingested, do not induce vomiting. Get medical attention. IN CASE OF FIRE: Use water fog, dry chemical, CO2, or "alcohol" foam. IN CASE OF SPILL: Sweep up material. Place residue in suitable container. Consult Material Safety Data Sheet for additional information.

Section 16 - Other Information

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration

Contact: Sue Palmer-Koleman, PhD Contact Phone: (713)-896-9966

For Additional Information:

Contact: MSDS Coordinator - Univar USA

During business hours, Pacific Time - (425) 889-3400

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END OF MSDS