



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

1134 W. 850 N. CENTERVILLE, UT 84014
(801) 295-9591 Fax (801) 295-9448
www.hvchemical.com

SAFETY DATA SHEET

Hi Valley Chemical

Sodium Sulfide

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Sulfide
SDS Number: R-110
Product Code: 761624-1, 761624-5, 761624-10, 761624-25, 761624-50
Revision Date: 2/15/2017
Version: 1
CAS Number: 1313-82-2
Chemical Formula: Na₂S
Supplier Details: High Valley Products, Inc.
1134 West 850 North
Centerville, Utah 84014
Emergency: PERS: 800-633-8253
Phone: 801-295-9591
Email: sales@hvchemical.com
Web: www.hvchemical.com

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

- Physical, Self-Heating Substances and Mixtures, 1
- Physical, Corrosive to Metals, 1
- Health, Acute toxicity, 3 Oral
- Health, Skin corrosion/irritation, 1 B
- Health, Serious Eye Damage/Eye Irritation, 1
- Environmental, Hazards to the aquatic environment - Acute, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

- H251 - Self-heating; may catch fire
- H290 - May be corrosive to metals
- H301 - Toxic if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H400 - Very toxic to aquatic life

GHS Precautionary Statements:

- P235+410 - Keep cool. Protect from sunlight.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+310+P330 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
1313-82-2	100%	Sodium sulfide (Na ₂ S)

4 FIRST AID MEASURES

Inhalation: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact: Wash with soap and water. Remove contaminated clothing and wash before reuse.
Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use dry powder.

Special hazards arising from the substance or mixture
Sulfur oxides, Sodium oxides

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up:
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.
Storage Requirements: Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Recommended

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

Sodium sulfide (Na₂S) (1313-82-2) [100%]

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: Dermatril (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested: Dermatril (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Sodium sulfide (Na₂S) (1313-82-2) [100%] : no data available

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow flakes
Physical State:	Solid
Odor:	No data available
Odor Threshold:	No data available
Solubility:	178 g/l at 20 °C (68 °F)
Spec Grav./Density:	1.86
Viscosity:	No data available
Boiling Point:	No data available
Freezing/Melting Pt.:	950 °C (1,742 °F)
Flash Point:	No data available
Partition Coefficient:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
pH:	No data available
Evap. Rate:	No data available
Auto-Ignition Temp:	No data available
Decomp Temp:	No data available
UFL/LFL:	No data available

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Air and moisture. Light
Materials to Avoid:	Oxidizing agents, Copper, ZincAcids
Hazardous Decomposition:	No data available

Sodium sulfide (Na₂S) (1313-82-2) [100%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 246 mg/kg

Inhalation LC50 no data available

Dermal LD50

Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Genotoxicity in vitro - mouse - lymphocyte - with or without metabolic activation - negative

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion Toxic if swallowed. Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Synergistic effects: no data available

Additional Information:

RTECS: WE1905000

12**ECOLOGICAL INFORMATION**

Sodium sulfide (Na₂S) (1313-82-2) [100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Poecilia reticulata* (guppy) - 15 mg/l - 96.0 h.

LC50 - *Lepomis macrochirus* (Bluegill sunfish) - 0.032 mg/l - 96 h Method: OECD Test Guideline 203

Toxicity to daphnia LC50 - *Daphnia magna* (Water flea) - 2.1 mg/l - 48 h.

and other aquatic invertebrates

Toxicity to algae Growth inhibition EC50 - *Chlorella pyrenoidosa* - 75 mg/l - 96 h.

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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life.

no data available

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

14**TRANSPORT INFORMATION**

UN1385, Sodium sulfide, anhydrous or Sodium sulfide with less than 30 percent water of crystallization, 4.2, PGII

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Sodium sulfide (Na₂S) (1313-82-2) [n/a%] MASS, TSCA

Regulatory CODE Descriptions

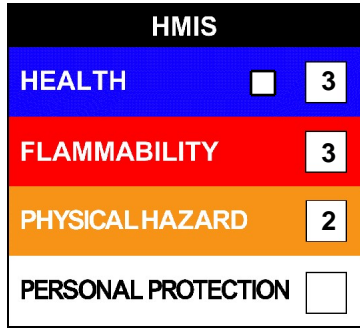
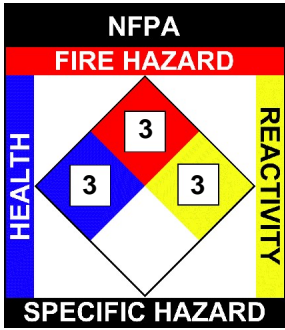
MASS = MA Massachusetts Hazardous Substances List

TSCA = Toxic Substances Control Act

16**OTHER INFORMATION**

NFPA: Health = 3, Fire = 3, Reactivity = 3, Specific Hazard = n/a

HMIS III: Health = 3, Fire = 3, Physical Hazard = 2



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