



Serving Scientific Community
Since 1985



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

SODIUM SULPHIDE

1. Product Identification

Synonyms : Sodium sulfide nonahydrate; Sodium monosulfide
CAS No. : 1313-82-2 (Anhydrous) 1313-84-4 (Nonahydrate)
Molecular Weight : 78.04 (on anhydrous basis)
Chemical Formula : $\text{Na}_2\text{S} \cdot x \text{H}_2\text{O}$
Product Codes : 33225

2. Composition/Information on Ingredients

Substance / Preparation : Sodium Sulphide
CAS No : 1313-84-4 Substance.
Contains no other components or impurities which will influence the classification of the product

3. Hazards Identification

Hazard statements:

H314 : Corrosive
H302 : Harmful if swallowed.
H400 : Toxic to aquatic life.

Precautionary statements

P280 : Wear protective gloves, protective clothing, eye protection, face protection.
P260 : Do not breathe dust, fume, gas, mist, vapours, spray.
P273 : Avoid release to the environment.
P264 : Wash thoroughly after handling.
P270 : Do not eat, drink or smoke when using this product.
P301+P330+P331 : If swallowed: Rinse mouth. Do NOT induce vomiting.
P391 : Collect spillage.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353 : If on Skin (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
P363 : Wash contaminated clothing before reuse.
P405 : Store locked up.
P501 : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation Reach.



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4. First Aid Measures

- Inhalation : Immediately call a doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a doctor.
- Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
- Ingestion : Immediately call a doctor. Rinse mouth. Do not induce vomiting.
- Symptoms relating to use : Causes severe skin burns and eye damage. Swallowing a small quantity of this material will result in serious health hazard.
- General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.
- Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
- Thermal decomposition generates: Corrosive vapours
- Protection against fire : Do not enter fire area without proper protective equipment, including Respiratory protection.
- Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
- For emergency responders : Equip cleanup crew with proper protection. Ventilate area.
- For non-emergency personnel : Evacuate unnecessary personnel.
- Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.
- Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
- Reference to other sections : See section 8. Exposure controls/personal protection

7. Handling and Storage

- Handling : Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling.
- Technical protective measures : Provide good ventilation in process area to prevent formation of vapour
- Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage regulation : Comply with applicable regulations.
- Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight
- Specific end use(s) : None.



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8. Exposure Controls/Personal Protection

- Personal protection : Avoid all unnecessary exposure.
- Respiratory protection : Wear approved mask.
 - Hand protection : Wear protective gloves.
 - Skin protection : Wear suitable protective clothing.
 - Eye protection : Chemical goggles or face shield.
 - Others : When using, do not eat, drink or smoke.
- Occupational Exposure Limits : No data available.

9. Physical and Chemical Properties

- Physical state at 20°C : Solid.
- Colour : Yellow
- Odour : N/A
- Odour threshold : No data available.
- pH value : Not applicable.
- Melting point [°C] : No data available.
- Decomposition point [°C] : N/A
- Critical temperature [°C] : N/A
- Auto-ignition temperature [°C] : N/A
- Flammability (solid, gas) : N/A
- Flash point [°C] : N/A
- Boiling point [°C] : N/A
- Initial boiling point [°C] : N/A
- Final boiling point [°C] : N/A
- Evaporation rate : N/A
- Vapour pressure [20°C] : N/A
- Vapour pressure mm/Hg : N/A
- Vapour density : N/A
- Density [g/cm³] : 1.86
- Relative density, gas (air=1) : N/A
- Relative density, liquid (water=1) : N/A
- Solubility in water [% weight] : Soluble in water
- Solubility in water : N/A
- Log Pow octanol / water at 20°C : No data available.
- Solubility : N/A
- Viscosity at 40°C [mm²/s] : N/A

10. Stability and Reactivity

- Reactivity : Highly reactive material.
- Chemical stability : Stable under recommended storage conditions.
- Hazardous reactions : Not established.
- Conditions to avoid : Direct sunlight. Extremely high or low temperatures
- Materials to avoid : Strong acids. Strong bases.
- Hazardous decomposition : Fumes. Carbon monoxide. Carbon dioxide.
- Products



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11. Toxicological Information

Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Harmful if swallowed.

Corrosion

: Causes severe skin burns and eye damage.

Irritation

: Based on available data, the classification criteria are not met.

Sensitization

: Based on available data, the classification criteria are not met.

Mutagenicity

: Based on available data, the classification criteria are not met.

Carcinogenicity

: Based on available data, the classification criteria are not met.

Toxic for reproduction

: Based on available data, the classification criteria are not met.

STOT-single exposure

: Based on available data, the classification criteria are not met.

STOT-repeated exposure

: Based on available data, the classification criteria are not met.

Aspiration hazard

: Based on available data, the classification criteria are not met.

12. Ecological Information

Toxicity information

: Toxic to aquatic life.

Persistence - degradability

: Biodegradable.

Bioaccumulative potential

: Not established.

Mobility in soil

: Not established.

Results of PBT and vPvB

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

assessment

Environmental precautions

: Avoid release to the environment.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Proper Shipping Name

: Sodium Sulphide Hydrated

Hazard Class

: 8

UN/NA

: UN1849

Packing Group

: II

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other Information

Product Use

: Laboratory Reagent for Educational & Research Purposes