

SAFETY DATA SHEET

1. Identification of the Substance and of the Company

Revised: April 28, 2025

Product Name: Sodium Sulfide Flakes**WC Code:** 19-046**Product Use:** Applied in areas such as pharmaceutical, leather, dyeing and paper making.**Company****WINTERSUN CHEMICAL**

1250 E. Belmont St.

Ontario, CA 91761

Call: 909-930-1688

Information / Emergency Telephone**PERS (Professional Emergency Resource Services)**

Domestic Shipments and to Canada: 1-800-633-8253

International Shipments: 1-801-629-0667

2. Hazard Identification

GHS-US Classification

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 3), H311

Skin corrosion/ irritation (Category 1A), H314

Acute aquatic toxicity (Category 1), H400

GHS-US Label elements**Pictogram****Signal word: DANGER****Hazard statement(s)**

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

Precautionary statement(s)

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands and other exposed area thoroughly after handling.

P301 + P330 + P331+ P312: IF SWALLOWED Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/ doctor/ medical personnel if you feel unwell.

P303 + P361 + P351 + P333 + P313: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 + P342 + P311: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + P337 + P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

P405: Store locked up.

P406: Store in corrosive resistant stainless steel container with a resistant inner liner.

P407: Maintain air gap between stacks/ pallets.

P501: Dispose of contents/ container to an approved waste disposal plant in accordance with federal, state and local environmental control regulations.

3. Composition/ Information on Ingredients

Synonyms: Sodium Hydrogen Sulfide

CAS Number: 1313-82-2

Appearance: Solid (slice shape)

Ingredients	CAS	EINECS	% (by weight)
Sodium Sulfide (Na ₂ S)	1313-82-2	215-211-5	60.0%
Sodium Sulfite (Na ₂ SO ₃)	7757-83-7	231-821-4	0.40%
Sodium Thiosulfate (Na ₂ S ₂ O ₃)	7772-98-7	231-867-5	1.60%
Sodium Carbonate (Na ₂ CO ₃)	497-19-8	207-838-8	0.50%
Impurity	--	--	0.020%
Water (H ₂ O)	7732-18-5	--	36.40%
Iron (Fe)	7439-89-6	--	0.0020%

4. First-Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical attention if irritation occurs.

Skin Contact

Remove any contaminated clothing. Wipe off excess from skin. Wash skin with soap and flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation

If inhaled, remove to fresh air immediately and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5. Fire Fighting Measures

Special Hazards Arising from the Substance or Mixture

It can liberate hydrogen sulfide gases when reacting with acids. Hydrogen sulfide gas is toxic and flammable.

Hazardous Combustion Products

It can liberate toxic and irritating fume from combustion.

Fire-Fighting Equipment/ Instructions

Evacuate personnel to a safe area. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media

This product is not easily flammable, but it is combustible when it is dried. Use dry chemical or sand for small fire; fog water for large fire. Seek advice from local fire-fighting authority.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures

Use proper personal protective equipment as indicated in Section 8. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation.

Containment and Cleaning Up

Handle in accordance with industrial hygiene and safety practices. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid generating dusty conditions. Finish cleaning the contaminated surface and dispose of according to local and regional authority requirements.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

7. Handling and Storage

Precautions

Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Do not swallow. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash hands and other exposed areas with mild soap and water after handling. Handle in accordance with good industrial hygiene and safety procedures.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers should be handled with care because it may contain residual amounts of this product.

8. Exposure Controls / Personal Protection

Exposure Limit

Iron (Fe) (CAS : 7439-89-6) ACGIH TLV-TWA: 5mg/m³ (iron oxides, fume and dust)

Engineering Controls

Use adequate ventilation or other engineering controls to keep airborne concentrations below recommended exposure limits. See **OSHA Regulations state in 29 CFR 1910.151 (c)** for an eyewash facility and safety shower requirement.

Personal Protective Equipment

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

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9. Physical and Chemical Properties

Appearance: Solid

Na₂S: 60.0% Min

Color: Light yellow

Water Insoluble: 0.03% Max

Iron (Fe): 0.0030% Max

Odor: Smelly, similar to the odor of sulfureted hydrogen

Odor Threshold: No data available

pH: No data available

Melting point/ freezing point: 1180 °C

Initial boiling point/ Boiling range: No data available

Evaporation rate: No data available

Vapor pressure: Not applicable

Vapor density: No data available

Density: 1.56

Water solubility: Soluble

Viscosity: No data available

Oxidizing properties: No data available

Auto-ignition Temperature: No data available

Flash Point: Not applicable

Explosion Limits: Not applicable

Flammability of the Product: Not applicable

Flammable Limits: Not applicable

10. Stability and Reactivity

Stability: Stable under ordinary conditions

Reactivity: No data available

Conditions to avoid: Moisture, light

Incompatibilities with other materials: Oxidizing agents, Copper, Zinc Acids

Hazardous decomposition products: No data available

Hazardous polymerization: No data available

11. Toxicological Information

Product Toxicity Data: The toxicity data of this product has not been determined by testing or research, but to relevant literature and classification standard in Annex 2 of GHS, this product is toxic. The toxicity data shown below is for reference only.

Ingredients	CAS	LD 50/ LC 50
Sodium sulfide (Na ₂ S)	1313-82-2	Acute Oral LD50: 300mg/kg (rat) Acute Dermal LD50 < 340mg/kg (rabbit)
Sodium sulfite (Na ₂ SO ₃)	7757-83-7	Acute Oral LD50: 3560mg/kg (rat)
Sodium thiosulfate (Na ₂ S ₂ O ₃)	7772-98-7	Acute Oral LD50 > 5000mg/kg (rat)
Sodium carbonate (Na ₂ CO ₃)	497-19-8	Acute Oral LD50: 4090mg/kg (rat) Acute Oral LD50: 6600mg/kg (mouse)

Carcinogenicity

The components of this product are not listed as carcinogen by ACGIH, IARC, NTP, or EPA

Special Remarks on Toxicity to Animals: No data available

Special Remarks on Chronic Effects on Humans: No data available

Special Remarks on other Toxic Effects on Humans: No data available

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment-1

Persistence and Degradability: This product is biodegradable.

Bioaccumulative Potential: Not found.

Mobility in Soil: It hardly moves in soil due to its solid nature.

Notes: Do not allow product to reach ground water, water course or sewage system.

13. Disposal Information

Waste Disposal

Keep out of sewers and waterways. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport Information

US DOT

UN/NA: 1849

Proper Shipping Name: Sodium sulfide, hydrated with not less than 30 percent water

Hazard Class: 8

Packing Group: II

IMDG/ IMO/ IATA/ ICAO

UN/NA: 1849

Proper Shipping Name: Sodium sulfide, hydrated with not less than 30 percent water

Hazard Class: 8

Packing Group: II

Refer to IMO.

15. Regulatory Information

SARA 302

No chemicals are reportable under Section 302

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

CERCLA/SARA Section 313

No chemicals are reportable under Section 313

US State**State Right to Know:**

This chemical is listed on the following state right to know lists: Massachusetts, New Jersey, Pennsylvania.

California Regulations**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)**

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Laws and Regulations:**TSCA (Toxic Substance Control Act) Inventory List:**

Sodium sulfide (Na_2S) (CAS: 1313-82-2)

Sodium sulfite (Na_2SO_3) (CAS: 7757-83-7)

Sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3$) (CAS: 7772-98-)

Sodium carbonate (Na_2CO_3) (CAS: 497-19-8)

Iron (Fe) (CAS: 7439-89-6)

16. Other Information**HMIS Rating**

Health: 3

Flammability: 1

Physical Hazard: 1

Personal Protection:

NFPA Rating

Health: 3

Flammability: 1

Instability: 1

Special Hazards:

Revision Date: April 28, 2025

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WINTERSUN CHEMICAL MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE

INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO WAY SHALL THE COMPANY BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.