

Safety Data Sheet: Hydrazine Sulfate

1. Identification

Product	Hydrazine Sulfate; CAS 10034-93-2; EC 233-110-4
Use	Professional, technically controlled chemical synthesis and analytical reagent development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Hydrazine Sulfate. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Acute oral, dermal and inhalation toxicity Category3; skin corrosion Category1B; serious eye damage Category1; skin sensitization Category1; carcinogenicity Category1B; acute and chronic aquatic hazard Category1.
Signal word / symbols	Danger; GHS05, GHS06, GHS08, GHS09
Hazard statements	H301 +H311 +H331: toxic if swallowed, in contact with skin or if inhaled. H314: causes severe skin burns and eye damage. H317: may cause an allergic skin reaction. H350: may cause cancer. H410: very toxic to aquatic life with long-lasting effects.
Prevention	Use adequate ventilation; avoid inhaling dust. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Hydrazine sulfate, CAS10034-93-2, EC233-110-4. Selected solid reference up to100%; supply assay≥98.5% does not establish a complete impurity profile.
Supply grade	Hydrazine sulfate ≥98.5%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air without exposing rescuers. Seek emergency medical assistance immediately after inhalation. Assisted breathing requires trained personnel and suitable equipment.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Obtain urgent treatment for chemical burns.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Obtain urgent medical care.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain emergency medical attention.
Effects / treatment	Toxic exposure may require immediate emergency care. Corrosive contact can damage skin, eyes and respiratory tissue; skin sensitization and cancer hazard require exposure prevention. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Elevated temperatures may cause violent decomposition. Fire may release nitrogen oxides, sulfur oxides and hazardous fumes.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and dust exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Collect spilled solid without raising dust into closed labelled containers.

7. Handling and Storage

Handling	Use contained handling and effective local extraction. Prevent ingestion, skin contact and inhalation of dust. Wear suitable chemical-resistant gloves, protective clothing and eye/face protection; select respiratory controls through an exposure assessment.
Storage	Store locked and tightly closed in a cool, dry, ventilated area. Protect from excessive heat; segregate from oxidizing agents, bases and incompatible chemicals. Restrict access to trained personnel.

8. Exposure Controls / Personal Protection

Exposure limits	No substance-specific occupational exposure limit is identified in the selected reference. Apply local workplace dust controls.
Engineering controls	Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	White crystalline powder
Formula / molecular weight	N ₂ H ₆ SO ₄ / 130.12 g/mol
Melting point, reference	254°C
pH, reference	1.3 at 52g/L
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing agents and bases. Avoid elevated temperatures and incompatible contamination.
Decomposition	Elevated temperatures may cause violent decomposition. Fire may release nitrogen oxides, sulfur oxides and hazardous fumes.

11. Toxicological Information

Exposure effects	Toxic exposure may require immediate emergency care. Corrosive contact can damage skin, eyes and respiratory tissue; skin sensitization and cancer hazard require exposure prevention.
Reference classification	Acute oral, dermal and inhalation toxicity Category3; skin corrosion Category1B; serious eye damage Category1; skin sensitization Category1; carcinogenicity Category1B; acute and chronic aquatic hazard Category1.
Data limits	Reference oral ratLD ₅₀ 601mg/kg. Toxicity by inhalation and skin exposure, corrosive effects, sensitization and carcinogenicity are retained; no additional supplied-batch numerical endpoint is assigned.

12. Ecological Information

Environmental effects	Very toxic to aquatic life with long-lasting effects. Prevent any uncontrolled release to water, soil or drains.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Class 8 — Corrosive; subsidiary risk 6.1
UN number	UN 2923
Shipping name	CORROSIVE SOLID, TOXIC, N.O.S. (hydrazinium sulfate)
Class / packing group	DOT / IMDG / IATA: Class8, subsidiary risk6.1, packing groupIII. Marine pollutant underIMDG.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Hydrazine Sulfate; CAS 10034-93-2; EC 233-110-4
HS reference	282510; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H301 +H311 +H331: toxic if swallowed, in contact with skin or if inhaled. H314: causes severe skin burns and eye damage. H317: may cause an allergic skin reaction. H350: may cause cancer. H410: very toxic to aquatic life with long-lasting effects.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.1 | Revision date: 2026-10-07