



DESIGN REPORT OF SAFETY DATA SHEET

No.: 250100320449868E

Date: May.27,2025



Name of the sample	Sodium Sulphide (60%)		
Applicant	Shaanxi Fuhua Chemical Co.,Ltd.		
Supplier	Shaanxi Fuhua Chemical Co.,Ltd.		
Composition of the sample	Sodium Sulphide: 60%; Sodium Sulphite: 0.4%; Sodium thiosulfate: 1.6%; Sodium carbonate: 1.5%; Crystal water: 36.5%		
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Tenth revised edition		
Design Result of SDS please see next page.			
Designer	孙越越	Approver	For and on behalf of CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司 华逸

4 授权签字人 Authorized Signature (s)

Notes: This SDS is valid before the implementation of the Eleventh revised edition GHS.

Test is Located on: CCIC Dangerous Goods Identification Center (47 Qingyang North Road, Tianning District, Changzhou, China)
Tel: +86-519-83277160

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SDS

Version: 1.0

Section 1 Product and Company Identification

> Product Identifier

Product Name Sodium Sulphide (60%)

Synonyms -

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Please consult manufacturer.

Uses Advised Against Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name Shaanxi Fuhua Chemical Co.,Ltd.

Application Address 2nd Industrial Road East, Zhuangli Industrial Zone, Fuping County, Shaanxi Province, China

Applicant Post Code 711700

Applicant Telephone +86-913-8760999

Applicant Fax —

Applicant E-mail sales@fuhua-chem.com

Supplier Name Shaanxi Fuhua Chemical Co.,Ltd.

Supplier Address 2nd Industrial Road East, Zhuangli Industrial Zone, Fuping County, Shaanxi Province, China

Supplier Post Code 711700

Supplier Telephone +86-913-8760999

Supplier Fax —

Supplier E-mail sales@fuhua-chem.com

> Emergency Phone Number

Emergency Phone Number +86-532-83889090

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the tenth revised edition):

> GHS Hazard Class

Acute Toxicity – Oral Category 4

Acute Toxicity – Dermal Category 3

Skin Corrosion/Irritation Category 1

Serious Eye Damage/Eye Irritation Category 1



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Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard

Category 1

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life

> Precautionary Statements

Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
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/hearing protection.
P264+P265	Wash hands and other contact area thoroughly after handling. Do not touch eyes.

Response

P316	Get emergency medical help immediately.
P317	Get medical help.
P321	Specific treatment (see measures on this label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301+P317	IF SWALLOWED: Get medical help.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354	IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.



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P305+P354+P338	IF IN EYES:Immediately rinse with water for several minutes.Remove contact lenses,if present and easy to do.Continue rinsing.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients



Component	CAS No.	EC No.	Concentration (weight percent, %)
Sodium Sulphide	1313-82-2	215-211-5	60
Sodium Sulfite	7757-83-7	231-821-4	0.4
Sodium thiosulfate	7772-98-7	231-867-5	1.6
Sodium carbonate	497-19-8	207-838-8	1.5
Crystal water	-	-	36.5

Section 4 First Aid Measures

> **Description of First Aid Measures**

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> **Most Important Symptoms and Effects, both Acute and Delayed**

- 1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> **Indication of Any Immediate Medical Attention and Special Treatment Needed**

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> **Extinguishing Media**

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Suitable Extinguishing Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 Fire may produce irritating, poisonous or corrosive gases.
- 2 Containers may explode when heated.
- 3 Fire exposed containers may vent contents through pressure relief valves.
- 4 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.



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> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available

Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand Protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and Body Protection	Wear fire/flare resistant/retardant clothing and antistatic boots. When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

Section 9 Physical and Chemical Properties

Appearance: Yellow flaky

Odor Threshold: No information available

Melting Point/Freezing Point (°C): No information available

Flash Point (°C)(Closed Cup): Not applicable

Flammability: Not combustible

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): No information available

Evaporation Rate: Not applicable

Upper/lower explosive limits[% (v/v)]: Upper limit: No information available; Lower limit: No information available



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Vapor Pressure (KPa): Not applicable	Relative Vapour Density(Air=1): Not applicable
Relative Density(Water=1): No information available	Solubility: No information available
n-Octanol/Water Partition Coefficient: No information available	Auto-Ignition Temperature(°C): No information available
Decomposition Temperature (°C): No information available	Kinematic Viscosity (mm²/s): Not applicable
Particle characteristics: No information available	Critical Temperature(°C): Not applicable

Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	May catch fire spontaneously in the air. In contact with inorganic alkalis may decompose violently. May react with strong acids, strong alkalis, strong oxidants and strong reducing agents.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Nitrate and nitrite, halogens oxyacid salts, potassium permanganate, persulfate, halogen and strong oxidants. Inorganic base, metal, sulfur and phosphorus. Strong acids, strong alkalis, strong oxidants and strong reducing agents.
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> **Acute Toxicity**

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
Sodium Sulphide	1313-82-2	208mg/kg(Rat)	<340mg/kg(Rabbit)	No information available
Sodium carbonate	497-19-8	4090mg/kg(Rat)	No information available	No information available
Sodium Sulfite	7757-83-7	3560mg/kg(Rat)	No information available	No information available

> **Skin Corrosion/Irritation**

Causes severe skin burns and eye damage(Category 1)

> **Serious Eye Damage/Irritation**

Causes serious eye damage(Category 1)

> **Skin Sensitization**

No information available

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> **Respiratory Sensitization**

No information available

> **Germ Cell Mutagenicity**

No information available

> **Carcinogenicity**

ID	CAS No.	Component	IARC	NTP
1	1313-82-2	Sodium Sulphide	Not Listed	Not Listed
2	7757-83-7	Sodium Sulfite	Not Listed	Not Listed
3	7772-98-7	Sodium thiosulfate	Not Listed	Not Listed
4	497-19-8	Sodium carbonate	Not Listed	Not Listed
5	-	Crystal water	Not Listed	Not Listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

No information available

> **STOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

No information available

Section 12 Ecological Information

> **Acute Aquatic Toxicity**

Component	CAS No.	Fish	Crustaceans	Algae
Sodium Sulphide	1313-82-2	LC ₅₀ : 41mg/L (96h)(Fish)	No information available	ErC ₅₀ : 75mg/L (96h)
Sodium carbonate	497-19-8	LC ₅₀ : 300mg/L (96h)(Fish)	EC ₅₀ : 200mg/L (48h)	No information available

> **Chronic Aquatic Toxicity**

No information available



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> Others

Persistence and Degradability Bioaccumulative Potential Mobility in Soil

No information available

No information available

No information available

Results of PBT and vPvB Assessment

Sodium Sulphide does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Sodium Sulfite does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Sodium thiosulfate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Sodium carbonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals Contaminated Packaging Disposal Recommendations

Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to Waste chemicals and Contaminated packaging.

Section 14 Transport Information

Transporting Label



Marine pollutant

Yes

UN Number

1849

UN Proper Shipping Name

SODIUM SULPHIDE, HYDRATED with not less than 30% water

Transport Hazard Class

8

Transport Subsidiary Hazard Class

NONE

Packing Group

II

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
Sodium Sulphide	√	√	√	√	√	√	√	√	√
Sodium Sulfite	√	√	√	√	√	√	√	√	√
Sodium thiosulfate	√	√	√	√	√	√	√	√	√

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Sodium carbonate	√	√	√	√	√	√	√	√	√
Crystal water	×	×	×	×	×	×	×	×	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECL】 Korea Existing Chemicals List.

【AIIIC】 Australian Inventory of Industrial Chemicals.

【ENCS】 Japan List of Existing and New Chemical Substances.

Note

“√” Indicates that the substance included in the regulations

“×” That no data or included in the regulations

Section 16 Additional Information

Creation Date May.27,2025
Revision Date May.27,2025
Reason for Revision -



> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 10th revised edition).The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



Terms of the Using of the Report

1. The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, CCIC requires the applicant to provide true and exact sample and data.
3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
7. The partly duplicating of this report is prohibited without the written approver of CCIC.
8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.
9. The authenticity of the certificate can be checked by scan the security code of this certificate.



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