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TIANJIN CHENGYI INTERNATIONAL TRADING CO., LIMITED

Room 1309, Wufeng Building, No.11 Zhenxing Street, National Hi-Tech Industrial  
Development Zone of Taiyuan, Shanxi, P.R.China. Post Code 030006

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## Material Safety Data Sheet

### Sodium Sulphide

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium Sulphide

**Synonyms:** Sodium monosulfide; sodium sulfide anhydrous; sodium sulphide

**Company Identification:**

New Tiger Co.,Ltd

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1313-82-2	Sodium Sulphide		215-211-5

#### Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: white to yellow solid.

**Danger!** Corrosive. Causes eye and skin burns. Harmful if swallowed. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. May cause central nervous system effects. Hygroscopic (absorbs moisture from the air). Prolonged exposure may cause pulmonary edema. May cause cardiac disturbances. Very toxic to aquatic organisms.

**Target Organs:** Central nervous system, respiratory system, cardiovascular system, eyes, skin.

#### Potential Health Effects

**Eye:** Causes eye burns. May cause irreversible eye injury. May cause blindness. May cause chemical conjunctivitis and corneal damage.

**Skin:** Causes skin burns. May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause irritation and/or dermatitis. Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

**Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. May cause cardiac disturbances. May cause systemic effects. May cause dizziness, drowsiness, confusion, weakness, irregular breathing, and unconsciousness. Contact with stomach acids can liberate toxic hydrogen sulfide gas.



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**Inhalation:** May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract. May cause effects similar to those described for ingestion. Aspiration may lead to pulmonary edema. May cause systemic effects.

**Chronic:** Effects may be delayed. None

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** 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. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 3; Flammability: 0; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.



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## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Do not ingest or inhale. Discard contaminated shoes.

**Storage:** Store in a cool, dry place. Keep container closed when not in use. Store in a tightly closed container. Keep from contact with oxidizing materials. Keep away from strong acids. Store protected from moisture.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium Sulphide	none listed	none listed	none listed

**OSHA Vacated PELs:** Sodium sulfide: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Water Content:** with not less than 30% water

**Physical State:** Solid

**Appearance:** white to yellow

**Odor:** rotten egg-like - weak odor

**pH:** Alkaline in solution

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Evaporation Rate:** Not applicable.

**Viscosity:** Not applicable.

**Boiling Point:** 346 deg F



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**Freezing/Melting Point:** 197 deg F  
**Decomposition Temperature:** Not available.  
**Solubility:** 15% @ 20C  
**Specific Gravity/Density:** 1.858  
**Molecular Formula:** Mixture  
**Molecular Weight:** Not available.

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.  
**Conditions to Avoid:** Incompatible materials, light, exposure to air, exposure to moist air or water.  
**Incompatibilities with Other Materials:** Metals, oxidizing agents, acids, carbon, moisture, diazonium salts.  
**Hazardous Decomposition Products:** Oxides of sulfur, hydrogen sulfide.  
**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**CAS#** 1313-82-2  
**LD50/LC50:**  
CAS# 1313-82-2:  
Oral, mouse: LD50 = 205 mg/kg;  
Oral, rat: LD50 = 208 mg/kg; <BR.  
**Carcinogenicity:**  
CAS# 1313-82-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.  
**Epidemiology:** No information found.  
**Teratogenicity:** No information found.  
**Reproductive Effects:** No information found.  
**Mutagenicity:** No information found.  
**Neurotoxicity:** No information found.  
**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** Bacteria: *Phytobacterium phosphoreum*: EC50 = 4.29 mg/L; 15 minutes; Microtox test

## Section 13 - Disposal Considerations



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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

<b>Shipping Name:</b>	Sodium Sulphide
<b>Hazard Class:</b>	8
<b>UN Number:</b>	UN1849
<b>Packing Group:</b>	II
<b>Additional Info:</b>	LOAD SEPARATE FROM ACIDS

## Section 15 - Regulatory Information

### TSCA

CAS# 1313-82-2 is listed on the TSCA inventory.

### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

### SARA Codes

CAS # 1313-82-2: acute, reactive.

### Section 313

No chemicals are reportable under Section 313.

### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.



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None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Hazard Symbols:** C N

**Risk Phrases:**

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

This product has a WHMIS classification of B4, D1B, E.

## Section 16 - Additional Information

The information above is believed to be accurate and represents the best information currently available to us. However, we 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 event shall "New Tiger Co.,Ltd" 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 "New Tiger Co.,Ltd" has been advised of the possibility of such damages.