

# Material Safety Data Sheet

Issue Date: 04.29.2020

## 1. Product and Company Identification

Trade Name :	ZnS (Zinc sulfide)
Manufacturer :	SUNDA OPTICAL MATERIAL CO., LTD.
Tel :	+886-6-2892278
Fax :	+886-6-2892267
Add. :	No. 2-2, Ln. 11, Sec. 3, Dongmen Rd., East Dist., Tainan City 701, Taiwan (R.O.C.)
CAS NO :	1314-98-3

## 2. Hazard Identification

Hazard statements: Causes serious eye irritation, may cause respiratory irritation

Serious Eye damage/ Eye irritation: Category 2

Specific target organ toxicity( single exposure): Category 3

Specific target organ toxicity – Repeated exposure

Signal :



## 3. Composition/Information on Ingredients

Analysis items and analysis results (ppm)											
ZnS	Al	Cr	Fe	Ni	Si	Ba	Co	Cu	Mn	Ti	Pb
≥ 99.9%	90	15	30	10	40	360	40	10	10	30	10

## 4. First-aid Measures

Inhalation : Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Skin Contact : After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Eye Contact : Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

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Ingestion : Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Most important symptoms and effects : Breathing difficulties, cough, varying degrees of pulmonary injury, irritation.

## 5. Fire-fighting Measures

Suitable extinguishing media : Use dry chemical powder or water spray. Do not use water jet.

Protecting equipment : Water self contained breathing apparatus for fire fighting if necessary.

Precautions for firefighters : Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## 6. Accidental Release Measures

Personal Precautions : Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental Precautions : Keep away from drains, surface and ground water.

Methods for Containment and Clean Up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

## 7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid breathing dust. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure Controls / Personal Protection

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use type N95 or type P1 respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN.

Eye protection: Use safety glasses.

Body protection: Use protective clothing.

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## 9. Physical and Chemical Properties

Physical state : Solid	Density : 4.10 g/cm <sup>3</sup>
Appearance : : White/Light yellow	Odor : Odorless
Melting point/range : 1700°C	Boiling point/range : N/A
Solubility : Insoluble in water.	Flash point : N/A
Explosive limits : N/A	

## 10. Stability and Reactivity

Reactive hazard: This material is not reactive under normal ambient conditions.
Stability: Stable under normal conditions.
Conditions to avoid: There are no specific conditions known which have to be avoided.

## 11. Toxicological Information

Acute toxicity: Shall not be classified as acutely toxic.
Irritation: Irritating to eyes.

## 12. Ecological Information

Eco-toxicity effects : N/A
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## 13. Disposal Considerations

Waste disposal methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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## 14. Transport Information

Transport Information : Not regulated
DOT Classification: Not a DOT controlled material (United States).

## 15. Regulations

Applicable regulations
1. Federal and State Regulations: Pennsylvania RTK: Zinc sulfide Massachusetts RTK: Zinc sulfide TSCA 8(b) inventory: Zinc sulfide SARA 313 toxic chemical notification and release reporting:

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Zinc sulfide CERCLA: Hazardous substances.: Zinc sulfide
2. WHMIS(Canada): Not controlled under WHMIS(Canada).
3. DSCL(EEC): R36/38-Irritating to eyes and skin.
4. Protective equipment: Gloves, lab coat and dust respirator. Be sure to use an approved/certified respirator or equivalent.

## 16. Other Information

References	1. GHS Web.: <a href="http://www.ghs.url.tw/train/train6th.pdf">http://www.ghs.url.tw/train/train6th.pdf</a> 2. HSDB DBMS 3. OHS MSDS DBMS 4. ChemWatch DBMS
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