

# Material Safety Data Sheet



**ZINC SULPHIDE**

VERSION : 01  
DATE OF ISSUE :02-12-2016  
SUPERSEDES : Nil

Product Code : 19960

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Trade name : ZINC SULPHIDE

Product code : 19960

Identification of the product : ZINC SULPHIDE

CAS No :1314-98-3

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use : Industrial. For professional use only.

### **1.3. Details of the supplier of the safety data sheet**

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

## **2. Hazards identification -DSD**

### **2.1. Classification of the substance or mixture**

Classification EC 67/548 or EC 1999/45

Classification : R31

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, dermal - Category 1 - Danger (CLP : Acute Tox. 1)

H310

### **2.2. Label elements**

Labelling EC 67/548 or EC 1999/45

Symbol



**R Phrase(s)** : R31 : Contact with acids liberates toxic gas.

**S Phrase(s)** : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 : Wear suitable protective clothing.

Labelling Regulation EC 1272/2008 (CLP)

Signal words : Danger

Hazard pictograms :



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**Hazard statements :** H310 : Fatal in contact with skin.

### **Precautionary statements**

• **Prevention :** P280: Wear protective gloves, protective clothing, eye protection, face protection.

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

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• **Response :** P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.

P363: Wash contaminated clothing before reuse.

P361: Remove immediately all contaminated clothing.

• **Storage :** P405: Store locked up.

• **Disposal considerations :** P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **2.3. Other hazards**

**Other hazards :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **3. Composition/information on ingredients**

**Substance / Preparation :** ZINC SULPHIDE

CAS No :1314-98-3

Substance.

Contains no other components or impurities which will influence the classification of the product.

### **4. First aid measures**

#### **4.1. Description of first aid measures**

**Inhalation :** Assure fresh air breathing. Allow the victim to rest.

**Skin contact :** Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

**Eye contact :** Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion :** Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use :** Fatal in contact with skin.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

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**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## **5. Fire-fighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### **5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

### **5.3. Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

### **6.2. Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **6.3. Methods and material for containment and cleaning up**

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### **6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

**Handling** : Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

### **7.2. Conditions for safe storage, including any incompatibilities**

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**Storage :** Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from :** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### **7.3. Specific end use(s)**

**Specific end use(s) :** None.

## **8. Exposure controls/personal protection**

### **8.1. Exposure controls**

**Personal protection :** Avoid all unnecessary exposure.

- **Respiratory protection :** Wear approved mask.
- **Hand protection :** Wear protective gloves.
- **Eye protection :** Chemical goggles or safety glasses.
- **Others :** When using, do not eat, drink or smoke.

### **8.2. Control parameters**

**Occupational Exposure Limits :** No data available.

## **9. Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

**Physical state at 20 °C :** Solid.

**Odour threshold :** No data available.

**pH value :** Not applicable.

**Melting point [°C] :** 1185 °C (Sublimes)

**Decomposition point [°C] :** N/A

**Critical temperature [°C] :** N/A

**Auto-ignition temperature [°C] :** N/A

**Flammability (solid, gas) :** N/A

**Flash point [°C] :** N/A

**Boiling point [°C] :** N/A

**Initial boiling point [°C] :** N/A

**Final boiling point [°C] :** N/A

**Evaporation rate :** N/A

**Vapour pressure [20°C] :** N/A

**Vapour pressure mm/Hg :** N/A

**Vapour density :** N/A

**Density [g/cm<sup>3</sup>] :** 4,1

**Relative density, gas (air=1) :** N/A

**Relative density, liquid (water=1) :** N/A

**Solubility in water [% weight] :** Insoluble in water

**Solubility in water :** N/A

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**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

## **9.2. Other information**

**Explosive properties** : N/A

**Explosion limits - upper [%]** : N/A

**Explosion limits - lower [%]** : N/A

**Oxidising properties** : No data available.

## **10. Stability and reactivity**

### **10.1. Reactivity**

**Reactivity** : Highly reactive material.

### **10.2. Chemical stability**

**Chemical stability** : Stable under recommended storage conditions.

### **10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

### **10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

### **10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

### **10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

• **Inhalation** : Based on available data, the classification criteria are not met.

• **Dermal** : Fatal in contact with skin.

• **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

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## **12. Ecological information**

### **12.1. Toxicity**

**Toxicity information :** Not established.

### **12.2. Persistence - degradability**

**Persistence - degradability :** Biodegradable.

### **12.3. Bioaccumulative potential**

**Bioaccumulative potential :** Not established.

### **12.4. Mobility in soil**

**Mobility in soil :** Not established.

### **12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment :** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **12.6. Other adverse effects**

**Environmental precautions :** Avoid release to the environment.

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

**General :** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions :** Hazardous waste due to toxicity.

## **14. Transport information**

### **14.1. Land transport (ADR-RID)**

**General information :** Not regulated.

### **14.2. Sea transport (IMDG) [English only]**

**General information :** Not regulated.

### **14.3. Air transport (ICAO-IATA) [English only]**

**General information :** Not regulated.

## **15. Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Safety, health and environmental :** Ensure all national/local regulations are observed.  
**regulations/legislation specific for the substance or mixture**

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**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

## **15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

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### **End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

**Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)**

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