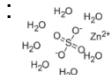


## SECTION 1: Identification of the substance/preparation and of the company/undertaking

### Identification of the Product

Product name : Zinc Sulphate heptahydrate  
EC-No. : 231-793-3  
CAS-No. : 7446-20-0  
Formula :  $ZnSO_4 \cdot 7H_2O$   
Chemical structure :



### Use of the Product/Preparation

Relevant identified uses

Use of the Product: Industrial for professional use only

### Details of the supplier of the safety data sheet

PHINE KEMIKALS INDIA  
Plot No. 1/2/3/90/P3A, G.I.D.C. Industrial Estate, Godhra, Gujarat 389002  
INDIA  
T +919824063593  
info@phinekem.in, [www.phinekem.in](http://www.phinekem.in)

### Emergency telephone number

Emergency number : + 919023930031 (24 hrs)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Serious eye damage/eye irritation, Category 2 H319  
Hazardous to the aquatic environment — Chronic H412  
Hazard, Category 3  
Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available.

### Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Single word (CLP): Warning (GHS07)

Hazard statements (CLP) : H412 – Harmful to aquatic life with long lasting effects.  
H319 - Causes serious eye irritation.  
Precautionary statements (CLP) : P273 – Avoid release to the environment  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3: Composition/information on ingredients

#### Substances

Substance type : Mono-constituent

Name : Zinc Sulphate Heptahydrate

CAS-No. : 7446-20-0

EC-No. : 231-793-3

Name	Product identifier	%
WATER AR	(CAS-No.) 7732-18- 5 (EC-No.) 231-791-2	99-100
ZINC SULPHATE HEPTAHYDRATE AR/ACS	(CAS-No.) 7446-20- 0	0.3-0.4

#### Mixtures

Not applicable

### SECTION 4: First aid measures

#### Description of first aid measures

##### Inhalation:

- Move to fresh air immediately
- Seek medical attention if symptoms persist

##### Skin Contact:

- Wash with plenty of water and soap
- Remove contaminated clothing

##### Eye Contact:

- Rinse cautiously with water for at least 15 minutes
- Seek medical attention

##### Ingestion:

- Rinse mouth with water
- Do not induce vomiting
- Get medical attention immediately

### SECTION 5: Firefighting measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry powder, CO<sub>2</sub>
- **Hazardous Decomposition Products:** Zinc oxide fumes, sulfur oxides
- **Protective Equipment:** Self-contained breathing apparatus

### SECTION 6: Accidental Release Measures

- Avoid dust formation
- Wear appropriate protective equipment
- Collect spilled material using dry methods
- Prevent entry into drains and water bodies

## SECTION 7: Handling and storage

### Handling:

- Avoid breathing dust
- Use adequate ventilation
- Avoid contact with eyes and skin

### Storage:

- Store in a cool, dry, well-ventilated place
- Keep container tightly closed
- Protect from moisture

## SECTION 8: Exposure controls/personal protection

### Exposure Limits:

- ACGIH TLV (as Zn): 2 mg/m<sup>3</sup>

**Personal Protective Equipment (PPE):** Wear the recommended personal protective equipment.



### Personal protective equipment symbol(s):

**Eye Protection:** Use chemical goggles or safety glasses.

**Skin Protection:** Wear protective clothing.

**Hand Protection:** Wear protective gloves.

**Respiratory Protection:** Wear an appropriate mask.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

- Appearance: White crystalline powder or granules
- Odor: Odorless
- Solubility: Freely soluble in water
- pH (5% solution): 4.0 – 6.0
- Density: ~1.97 g/cm<sup>3</sup>
- Melting Point: Decomposes on heating

## SECTION 10: Stability and reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Heat, moisture
- **Incompatible Materials:** Strong bases, strong oxidizing agents
- **Hazardous Decomposition Products:** Zinc oxide, sulfur oxides

## SECTION 11: Toxicological information

- **Acute Oral Toxicity:** LD<sub>50</sub> (rat) ~ 1710 mg/kg

- **Skin:** Causes irritation
- **Eyes:** Causes serious irritation
- **Chronic Effects:** Excessive exposure may cause gastrointestinal discomfort

#### SECTION 12: Ecological information

- Harmful to aquatic organisms in high concentrations
- Avoid environmental release

#### SECTION 13: Disposal considerations

- Dispose in accordance with local and national regulations
- Do not dispose into drains or surface water

#### SECTION 14: Transport information

- **UN Number:** Not classified as hazardous
- **Hazard Class:** Not regulated
- **Packing Group:** Not applicable

#### SECTION 15: Regulatory Information

- Classified according to GHS guidelines
- Not listed as carcinogenic by IARC, NTP, or OSHA

#### SECTION 16: Other Information

##### Abbreviations and Acronyms:

- **Transport Regulations:**
  - ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
  - ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
  - IATA: International Air Transport Association
  - IMDG: International Maritime Dangerous Goods
  - RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- **Toxicity and Health:**
  - ATE: Acute Toxicity Estimate
  - BLV: Biological Limit Value
  - DMEL: Derived Minimal Effect Level
  - DNEL: Derived-No Effect Level
  - EC50: Median effective concentration
  - IARC: International Agency for Research on Cancer
  - LC50: Median lethal concentration
  - LD50: Median lethal dose
  - LOAEL: Lowest Observed Adverse Effect Level
  - NOAEC: No-Observed Adverse Effect Concentration
  - NOAEL: No-Observed Adverse Effect Level
  - NOEC: No-Observed Effect Concentration
  - OEL: Occupational Exposure Limit

- TLM: Median Tolerance Limit
- ED: Endocrine disrupting properties

- **Environmental:**

- BCF: Bioconcentration factor
- BOD: Biochemical oxygen demand
- COD: Chemical oxygen demand
- OECD: Organisation for Economic Co-operation and Development
- PBT: Persistent Bioaccumulative Toxic
- PNEC: Predicted No-Effect Concentration
- STP: Sewage treatment plant
- ThOD: Theoretical oxygen demand
- vPvB: Very Persistent and Very Bioaccumulative
- VOC: Volatile Organic Compounds

- **Other:**

- CAS-No.: Chemical Abstract Service number
- EC-No.: European Community number
- EN: European Standard
- N.O.S.: Not Otherwise Specified
- SDS: Safety Data Sheet

- **Hazard Statements:**

- Eye Irrit. 2: Serious eye damage/eye irritation, Category 2
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- Skin Irrit. 2: Skin corrosion/irritation, Category 2

**Disclaimer:**

This Safety Data Sheet (SDS) information is based on our current knowledge and is intended to describe the product for health, safety, and environmental purposes only. It should not be interpreted as a guarantee of any specific product property.



MATERIAL SAFETY DATA SHEET  
Product: Zinc Sulphate 7-hydrate  
Company: Phine Kemikals India