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**MATERIAL SAFETY DATA SHEET (MSDS)****ZINC SULPHATE LR (MONOHYDRATE)****1: Product Identification**

Chemical Name: Zinc sulfate monohydrate  
CAS Registry Number: 7446-19-7

Product Code: Z0220500500

Formula: ZnSO<sub>4</sub>.H<sub>2</sub>O  
Synonym: Sulfuric acid, zinc salt (1:1), monohydrate

**2: Composition and Information on Ingredients**

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7446-19-7	100%	no data	no data

**3: Hazards Identification**

Emergency Overview: Irritating to eyes, skin and respiratory tract. Harmful if swallowed.  
Primary Routes of Exposure: Ingestion, inhalation  
Eye Contact: Causes slight to mild irritation of the eyes.  
Skin Contact: Causes slight to mild irritation of the skin.  
Inhalation: Irritating to the nose, mucous membranes and respiratory tract.  
Ingestion: Harmful if swallowed. May cause abdominal pain, nausea and vomiting.  
Irritating to skin, eyes and respiratory tract. Harmful if swallowed. Inhalation may cause burning sensation,  
Acute Health Affects: coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.  
Chronic Health Affects: Prolonged or repeated exposure may cause breathing difficulty and decreased pulmonary function.  
NTP: No  
IARC: No  
OSHA: No

**4: First Aid Measures**

Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need  
Eye Exposure: assistance in keeping their eye lids open. Get immediate medical attention.  
Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if

Skin Exposure: irritation persists.  
Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty  
Inhalation: in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance. Seek medical attention immediately. Keep  
the victim calm. Give the victim water (only if conscious). Induce  
Ingestion: vomiting only if directed by medical personnel.

**5: Fire Fighting Measures**

Flash Point: not applicable  
Autoignition Temperature: none  
Explosion Limits: none  
Extinguishing Medium: none required  
If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained  
Special Fire Fighting Procedures: breathing apparatus and full protective clothing.  
Hazardous Combustion and If involved in a fire this material may emit toxic fumes of sulfur oxides.  
Decomposition Products:  
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

**6: Accidental Release Measures**

Spill and Leak Procedures: Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.

**7: Handling and Storage**

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Handling and Storage: Store material in a tightly sealed bottle away from moisture.

**8: Exposure Controls and Personal Protection**

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.  
Skin Protection: Wear appropriate chemical resistant gloves and protective clothing.  
Ventilation: If possible, handle the material in an efficient fume hood.  
In the absence of adequate ventilation a respirator should be worn. The use of a respiratory requires a Respirator:  
Respirator Protection Program to be in compliance with 29 CFR 1910.134.  
Ventilation: If possible, handle the material in an efficient fume hood.  
Additional Protection: No additional protection required.

**9: Physical and Chemical Properties**

Color and Form: white powdr.  
Molecular Weight: 161.43 (179.45)  
Melting Point: no data  
Boiling Point: no data  
Vapor Pressure: no data  
Specific Gravity: no data  
Odor: none  
Solubility in Water: very soluble

**10: Stability and Reactivity**

Stability: air and moisture stable  
Hazardous Polymerization: no hazardous polymerization  
Conditions to Avoid: none  
Incompatibility: none  
Decomposition Products: none

**11: Toxicological Information**

For anhydrous ZnSO<sub>4</sub>: Unreported (human-man); LDLo: 221 mg/kg. Oral (rat); LD50: 2150 mg/kg. Intraperitoneal (rat); LD50: 200 mg/kg. Subcutaneous (rat); LDLo: 330 mg/kg. Intravenous (rat); LDLo: 49 mg/kg. Subcutaneous (dog); LDLo: 78 mg/kg. Oral (rat); TDLo: 226226 mg/kg/13W-C. Intraperitoneal (mouse); DNA inhibition; 20 gm/kg.  
Carcinogenic Effects: no data  
Mutagenic Effects: Negative data  
Tetratogenic Effects: no data

**12: Ecological Information**

Avoid release to the environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the Ecological Information: aquatic environment.

**13: Disposal Considerations**

Disposal: Dispose of according to local, state and federal regulations.

**14: Transportation**

Not Regulated

**15: Regulatory Information**

TSCA: Not listed in the TSCA inventory.  
SARA (Title 313): Title compound: See category code N982 for reporting.  
Second Ingredient: none

**16. Other Information**

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**ZINC SULPHATE LR (MONOHYDRATE)**

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**Product Use:** Laboratory Reagent.

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In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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