

## SAFETY DATA SHEET (SDS) Hi-Lo Zinc Sulfate

### SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

**Manufacturer & Supplier:** Chemurgic Agricultural Chemicals, Inc.

**Address:** PO Box 2106  
Turlock, CA 95381

**Tel:** + 209-634-2951  
**Fax:** + 209-667-1860

**Web Site:** [www.Chemurgic.net](http://www.Chemurgic.net)  
**Emergency Contact:** INFOTRAC: (800) 535-5053  
EPA National Response: (800) 424-8802

**Product Name:** Hi-Lo Zinc Sulfate 35.5% Powder  
**Formula:**  $\text{ZnSo}_4 \cdot \text{H}_2\text{O}$   
**Synonyms:** Zihc Suphate  
**Primary Use:** Mineral nutrient additive for the feed industry, Plant Food

### SECTION 2 - HAZARDS IDENTIFICATION

#### Classification according to Regulation (EC) 1272/2008 (GHS-CLP)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Risk of

serious damage to eyes. Harmful if swallowed.

**GHS Pictogram:**



**Signal Word:** **Danger**

#### Hazard Statements:

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

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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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Formula:</b>	ZnSo4. H2O
<b>Molecular Weight::</b>	179.47 g/mol
<b>Appearance &amp; Odour:</b>	Solid granular powder (fine), white in colour.
<b>CAS-No</b>	7446-19-7
<b>EC-No.</b>	231-793-3
<b>Index-No.</b>	030-006-00-9
<b>Classification</b>	Aquatic Acute 1; Aquatic Chronic 1; H302, H318, H410

**SECTION 4 - FIRST AID MEASURES**

**Effects and symptoms:** Chills, fever, nausea, vomiting, coughing, weakness and headaches, skin irritation.

**First aid**

- **Skin contact:** Wash immediately with plenty of water and soap/
- **Inhalation:** Remove victim to fresh air. Clean nasal cavity with water. Give oxygen if breathing difficulty. Seek medical attention.  
If feeling unwell, immediately seek medical attention.
- **Eye contact:** Rinse immediately with clean water for 15 minutes.  
If feeling unwell, immediately seek medical attention.
- **Ingestion:** Immediately rinse mouth with water.  
Do not induce vomiting. Give large quantities of water or milk to drink.  
If feeling unwell, immediately seek medical attention.

**Protection of rescue personnel:** Avoid all unnecessary exposure. Use appropriate protection (see Section 9).

**SECTION 5 – FIRE, FIGHTING & EXPLOSION DATA**

<b>Fire:</b>	Non Combustible.
<b>Flammability:</b>	Non Flammable
<b>Flash point:</b>	Not Combustible
<b>Extinguishing media:</b>	In case of fire in immediate vicinity use any extinguishing agent.
<b>Protection of fire-fighters:</b>	Use breathing apparatus (self-contained breathing apparatus with full face shield). Wear suitable protective clothing.
<b>Hazardous combustion and: Decomposition products</b>	None.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES & SPILL LEAK PROCEDURES

<b>Personal precautions:</b>	Wear suitable gloves and eye/face protection. Avoid dust creation.
<b>Environmental precautions:</b>	Avoid allowing product to enter drains, sewage system, ground water.
<b>Methods for cleaning up:</b>	Sweep up and shovel into suitable containers for disposal. Re-use or recycle waste.

## SECTION 7 - HANDLING AND STORAGE

<b>Handling &amp; storing:</b>	Good housekeeping - store in a cool dry place - keep containers shut. Avoid making dust. Avoid moisture.
<b>Packing Materials:</b>	All materials suitable.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- **Respiratory protection:** Respiratory protection equipment necessary when dust is apparent  
Type P1 respirator (EN 143).
- **Hand protection:** ProtectiveGloves.  
Material: leather gloves, cotton gloves, rubber gloves.
- **Skin protection:** Work clothes.
- **Eye protection:** Chemical goggles or safety glasses.
- **Engineering measures:** Mechanical ventilation is recommended.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Melting Point:</b>	Not Listed.
<b>Solubility in water:</b>	Soluble
<b>Appearance &amp; Odour:</b>	Solid granular powder (fine), white to off white colour.

## SECTION 10 - STABILITY & REACTIVITY DATA

<b>Stability:</b>	Stable under ordinary conditions
<b>Hazardous Reactions:</b>	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Zinc/zinc oxides.

**Incompatibility (materials to avoid):** Strong oxidizing agents. Avoid moisture

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	
- <b>Inhalation:</b>	May be harmful if inhaled. May cause respiratory tract irritation.
- <b>Dermal:</b>	May cause skin irritation..
- <b>Ingestion:</b>	Harmful if swallowed.
<b>Dermal irritation:</b>	Can cause irritation.
<b>Eyes irritation:</b>	Causes serious eye irritation.
<b>Chronic toxicity:</b>	Not available.
<b>Sensitization:</b>	Not available.
<b>Carcinogenicity:</b>	Not listed by IARC and ACGIH as carcinogen.
<b>Mutagenicity:</b>	Not available.
<b>Reproductive toxicity:</b>	An experimental or tumorigen and mutagen.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Persistence and degradability:</b>	Not applicable.
<b>Bioaccumulative potential:</b>	Not applicable.
<b>Ecotoxicity:</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Mobility:</b>	Not applicable.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Disposal:</b>	Comply with local regulations for disposal.
<b>Waste of residues:</b>	This material and its container should be labeled Hazardous Goods.
<b>Contaminated packaging:</b>	Keep waste packaging separate. Waste should be disposed of in a permitted chemical waste facility.

## SECTION 14 - TRANSPORT INFORMATION

### ADR/RID

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulfate monohydrate)

### IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Sulphate monohydrate)

Marine pollutant: Yes

### IATA

UN-Number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc Sulfate monohydrate)

## SECTION 15 – REGULATORY INFORMATION

Classification according to Regulation (EC) 1272/2008 (GHS-CLP).  
This Safety Data Sheet complies with EC regulation No. 1907/2006/

## SECTION 16 - OTHER INFORMATION

### Text of H-code(s) and R-phrases(s) mentioned in Section 3

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

N Dangerous for the environment

Xn Harmful

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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