

SAFETY DATA SHEET (SDS) Hi-Lo Zinc Sulfate

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

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

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Turlock, CA 95381

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Product Name: Hi-Lo Zinc Sulfate 35.5% Powder
Formula: $ZnSo_4.H_2O$
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

Formula:	ZnSo4. H2O
Molecular Weight::	179.47 g/mol
Appearance & Odour:	Solid granular powder (fine), white in colour.
CAS-No	7446-19-7
EC-No.	231-793-3
Index-No.	030-006-00-9
Classification	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

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

SECTION 6 - ACCIDENTAL RELEASE MEASURES & SPILL LEAK PROCEDURES

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

SECTION 7 - HANDLING AND STORAGE

Handling & storing:	Good housekeeping - store in a cool dry place - keep containers shut. Avoid making dust. Avoid moisture.
Packing Materials:	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

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

SECTION 10 - STABILITY & REACTIVITY DATA

Stability:	Stable under ordinary conditions
Hazardous Reactions:	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

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

SECTION 12 - ECOLOGICAL INFORMATION

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

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal:	Comply with local regulations for disposal.
Waste of residues:	This material and its container should be labeled Hazardous Goods.
Contaminated packaging:	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-phrase(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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