

SAFETY DATA SHEET (SDS) ZINC SULFATE MONHYDRATE

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer & Supplier: NUMINOR CHEMICAL INDUSTRIES LTD.

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Product Name: Zinc Sulfate Monohydrate:

Formula: ZnSO₄.H₂O
Synonyms: Zinc Sulphate
Primary Use: Mineral nutrient additive for the feed industry.
Reach Number: 01-2119463881-32 -0070

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:

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:	ZnSO ₄ . H ₂ O
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:** Protective Gloves.
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-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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