



# ZINC SULPHATE MONO SAFETY DATA SHEET

## SECTION 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name: ZINC SULPHATE MONO

Other Names: Zinc Sulphate Monohydrate, Zinc Sulphate, Sulphuric acid (zinc salt monohydrate)

Chemical Formula:  $ZnSO_4 \cdot H_2O$

Product Code: Animal Health grade powder ,Fertiliser grade granule

Recommended Use: Fertiliser additive

Animal Health product; for the prevention of facial eczema; the treatment and prevention of foot conditions; the treatment and prevention of mycotic dermatitis (Lumpy Wool); dietary zinc supplement

Company Identification: Sulfozyme Agro (India) Pvt. Ltd.

Address: Plot no. 58 to 63, B/h ashok Leyland, G.I.D.C, Phase-II, Dared, Jamnagar-361004

Customer Centre: +91-812-88-888-70

## SECTION 2: HAZARD IDENTIFICATION

Hazard Classifications: 6.1D, 6.9B, 8.3A, 9.1A, 9.3C

Priority Identifiers: DANGER

KEEP OUT OF REACH OF CHILDREN

Secondary Identifiers: 6.1D = May be harmful if swallowed, inhaled or absorbed through the skin

6.9B = Harmful to human target organs or systems

8.3A = Corrosive to the eyes

9.1A = Very toxic to aquatic organisms

9.3C = Harmful to terrestrial vertebrates

## SECTION 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Zinc Sulphate Heptahydrate		98 - 100 %

## SECTION 4: FIRST AID MEASURES

First Aid Measures: Consult the National Poisons Centre or doctor immediately in every case of suspected poisoning.



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**Inhalation:** Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

**Ingestion:** Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.

**Skin:** Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.

**Eye:** Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor immediately.

**Advice to Doctor:** No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and /or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

## **SECTION 5: FIRE FIGHTING MEASURES**

**Flash Point:** N/A (Non-flammable)

**Combustion Products:** Sulphur oxides, zinc oxide

**Extinguishing Media:** Based on surrounding materials

**Protective Equipment:** Breathing apparatus plus protective gloves

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Spills and Disposal:** Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.

**Protective Clothing:** For appropriate personal protective equipment see section 8.

**Environmental Precaution:** Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

## **SECTION 7: HANDLING AND STORAGE**

**Handling:** Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapors. Use personal protective equipment as required.

**Approved Handler:** Not required

**Tracking:** Not required

**Record Keeping:** Not required

**Storage:** Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilizer and seed. Store in accordance with Management of Agrichemicals. This product is subject to signage and secondary containment when stored in quantities of 100 kg or more, either alone or in aggregate with substances of the same hazard

**info@sulfozyme.com**

**www.sulfozyme.com**



classification. Storage of more than 100 kg requires emergency response plans. Management of Agrichemicals Regulations (Emergency Management and identification Regulations).

Other Information: Always read the label before use. See label for further information on handling and storage.

## **SECTION 8: PERSONAL PROTECTION**

Engineering Controls: Handle in well-ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust. Keep containers closed when not in use.

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White free flowing powder, powder or granule

Odour: white

Specific Gravity: 3.28

pH: 4-7 (100g/l in water @ 200C)

Solubility in Water: Soluble (approx. 500g per liter at room temperature)

Flash Point: N/A

Melting Point: Loses waters of crystallization at 2800C, Decomposes above 5000C

## **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable under normal conditions. When stored appropriately this product should show no significant degradation for at least 5 years from the date of manufacture.

Hazardous Polymerisation: Hazardous polymerization is not likely to occur

Hazardous Decomposition Sulphur oxides, zinc oxide

Products:

Conditions to Avoid: Moisture and heat. Releases water of powder when heated.

Materials to Avoid: Alkaline solutions. Will form acidic solutions with water.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Ingestion: Acute Toxicity (Oral): LD50 (rat) 1,710mg/kg. Ingestion of large quantities may lead to nausea, vomiting, inflammation of mucous membranes, stomach ulceration, cold sweats, pulse depression and leg cramps.



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Inhalation: May lead to nausea, vomiting, inflammation of mucous membranes.

Skin: Not irritant.

Eye: Corrosive; risk of serious damage to eyes.

Chronic Effects: May be harmful to the blood and the hematopoietic system.

Reproductive Toxicity: May damage fertility or the unborn child.

Mutagenicity: Non-mutagenic

Carcinogenicity: Based on the results of animal studies not considered to be carcinogenic

## **SECTION 12: ECOLOGICAL INFORMATION**

Eco toxicity: Very toxic to aquatic organisms and harmful to terrestrial vertebrates

Bioaccumulation: Unlikely to bio-accumulate

## **SECTION 13: DISPOSAL INFORMATION**

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Burn container in an appropriate incinerator if circumstance, such as wind direction permit.

Otherwise bury in an approved landfill. Do not use container for any other purpose.

## **SECTION 14: TRANSPORT INFORMATION**

Transport Information: It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilizers during transport.

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc sulphate monohydrate)

Packing Group: II

Marine Pollutant: Yes

MTQ (non-commercial): 1,000 kg