



Xiangtan Fenghe Biotechnology Co.,Ltd

ADD:No.142,Haitang Road,Yisuhe Town,Xiangtan,Hunan,China

Tel:86-731-57781689

Fax:86-731-57882588

Contact: Sharon Xiang

MSN: fhsharon@hotmail.com

Email: fhzinc.sharon@gmail.com

Web: www.fhzinc.com

Material Safety Data Sheet

Zinc Sulphate Monohydrate

1. Product Information

Product Name: Zinc Sulfate Monohydrate Powder, Zinc Sulfate Monohydrate Mini Granule, Zinc Sulfate Monohydrate Maxi Granule

Chemical Name: $ZnSO_4 \cdot H_2O$

Product Use: Included in animal feeds and used as a fertilizer micronutrient

Manufacturer: Xiangtan Fenghe Biotechnology Co.,Ltd

No.142,Haitang Road,Yisuhe Town,411228,Xiangtan,Hunan,PRC.

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Fax:86-731-57882588

Web: www.fhzinc.com

Msn: fhsharon@hotmail.com

Email: fhzinc.sharon@gmail.com

2. Hazardous Ingredients

Zinc Sulfate: >98%

3. Physical Data

Material at Normal Conditions: Solid

Appearance and Colour: White powder and/or granules

Odor Threshold: Odourless

Boiling/Freezing Point: Not applicable

Melting Point: Decomposes above 500 C

Evaporation Rate: Not applicable

Specific Gravity (H₂O=1): 3.28

Vapor Density/Pressure: Not applicable

Molecular Weight: 179.46

Coefficient of Water/Oil Distribution: Not available

pH: 4.0 - 7.0 in 10% solution

% Volatiles by Volume at 20 C: Not available

Solubility: Readily soluble in water, slightly soluble in alcohol, insoluble in acetone

4. Fire or Explosion Hazard

Conditions of Flammability: Not flammable

Flash Point: Not applicable

Explosion Hazard: Not considered to be a fire and explosion hazard

Upper/Lower Flammable Limit: Not available

Auto Ignition Temperature: Not available

Sensitivity to Mechanical Impact: Not applicable

Sensitivity to Static Discharge: Not applicable

Fire Extinguishing Procedures: Dry chemical, carbon dioxide or foam. Water may

be ineffective but water spray/fog may be used as a cooling agent. Avoid breathing vapours. Keep upwind. Dike area to prevent runoff and contamination of water sources. Use suitable protective equipment for surrounding fire.

Engineering Controls: Use adequate exhaust ventilation to keep airborne concentrations below the allowable exposure limit.

5. Reactivity Data

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, high temperatures, moisture

Incompatibility (Materials to Avoid): Oxidizers (strong), strong acids, hydrogen peroxides

Hazardous Decomposition Products: May release toxic and hazardous oxides of zinc and sulfur.

Hazardous Polymerization: Will not occur under normal temperatures and pressure

Other Precautions: Avoid excessive heat

6. Toxicological Properties

Inhalation: May cause irritation to nose and upper respiratory tract, possibly severe. Additional effects may include difficulty breathing, coughing and pain.

Ingestion: May cause burns. Additional effects may include fever, nausea, vomiting, diarrhea, stomach pain, blood in stool and inability to urinate.

Skin: May cause skin irritation, possibly severe. Symptoms may include tearing, stinging or redness, burning of skin and other damages.

Eyes: May cause eye irritation, possible cornea burn. Additional effects may include tearing, stinging or redness.

Acute Toxicity: Harmful if swallowed or inhaled. Potential acute hazardous in case of eye contact, slightly hazardous in case of skin contact.

7. Preventive Measures

Eyes and Face: Where there is potential for eye contact, wear splash proof or dust proof safety goggles.

Hands, Arms, Body: Wear appropriate protective clothing and chemical resistant gloves as needed to prevent skin contact. Clean contaminated clothing and protective equipment before reuse. Wash thoroughly after handling material.

Normal Handling: Provide local exhaust ventilation

Storage: Store indoors in a cool dry area and reseal open containers to avoid spill and airborne particles. Protect from physical damage. Isolate from all incompatible substances.

Environmental

Spill or Leak: Notify safety response personnel of leak or spill. Confine spill or leak to as small an area as possible. Vacuum or shovel spilled material into clean, dry containers and dispose of according to Federal, Provincial, State and local regulations. Wear a respirator, protective clothing and gloves.

Waste Disposal: Dispose of material in accordance with Federal, Provincial, State and local regulations.

Do not discharge into drains or rivers.

Shipping Information

TGD Class: 9 (US)

PIN Shipping Name: Environmentally hazardous substances solid N.O.S. (Zinc Sulphate)

UN 3077 - PG III

8. First Aid Measures

Inhalation: Remove victim to fresh air environment. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Keep victim warm and calm. Seek medical attention.

Ingestion: Administer 2 glasses of water and seek medical attention. Don't induce vomiting. Seek immediate medical attention.

Skin: Remove contaminated clothing. Wash affected area with soap or mild detergent and large amounts of water. Seek medical attention if effects persist.

Eyes: Wash eyes with large amounts of water for at least 15 minutes. Seek medical attention if effects persist.

Issue date: April 20, 2012