

Material Safety Data Sheet

Section 1 –Chemical Product and company identification

Product Identification : **Zinc sulphate monohydrate**

Company Identification : OUZHOU HENGSHUN CHEMICAL INDUSTRIAL CO.,LTD

No.1 Dongji Rd., Shenjia Development Zone,

Quzhou, Zhejiang, China

Tel: 0086 570 231 6866 Fax: 0086 570 238 6622

E-Mail:contact@hengshunchem.com

Section 2 - Composition/Information on Ingredients

Chemical name	assay	CAS NO.	EINECS#
Zinc sulphate monohydrate	98-100	7446-19-7	231-793-3

Section 3 - Hazards Identification, Including Emergency Overview

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R 50/53 very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Potential health effects

EYE : causes eye irritation.

SKIN :

INGESTION : poison by ingestion.

INHALATION : causes respiratory tract irritation. toxic if inhaled.

CHRONIC: not available.

Section 4 – First Aid Measures

After inhalation

Supply fresh air, If required, Provide artificial respiration. Keep patients warm.

Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

Seek immediate medical advice.

After eye contact

Rinse opened eye for several minutes under running water, then consult a doctor.

After swallowing

Seek immediate medical advice

Section 5 - Fire fighting Measures

Suitable extinguishing agents

Product is not flammable, Use fire fighting measures that suit the surrounding fire.

Special hazards caused by the material ,Its products of combustion or resulting gases:

In case of fire, the following can be released:

sulfur dioxide(SO₂)

Metal oxide

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

Section 6 - Accidental Release Measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting: Pick up mechanically.

Additional information:

See Section 7 for information on safe handling

See section 8 for information on personal protection equipment.

see section 13 for disposal information.

Section 7 - Handling and Storage

Handling

Information for safe handling:

Keep container tightly sealed.
Store in cool ,dry place in tightly closed containers.
Ensure good ventilations at the workplace.
prevent formation of dust.
Information about protection against explosions and fires:
The product is not flammable

Storage

Requirements to be met by storerooms and receptacles:
No special requirements.
Information about storage in one common storage facility.

Further information about storage conditions:

Keep containers tightly sealed

Section 8 - Exposure Controls & Personal Protection**General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs,beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Breathing equipment:

Use suitable respirator when high concentrations are present.

protection of hands: Impervious gloves

Eye protection: Safety glasses

Body protection: Protective work clothing.

Section 9 - Physical & Chemical Properties

Physical State:	powder
Appearance:	White powder
Odor:	odorless
melting Point:	100 °C
boiling Point:	767 deg C
Flash Point:	Not available
Explosion Limits, lower:	Not available
Explosion Limits, upper:	Not available
Decomposition	Not available
Temperature:	
Solubility in water:	Solubility in water
Specific Gravity/Density:	3.28g/cm ³
Molecular Formula:	ZnSO ₄ ·H ₂ O

Molecular Weight: 179.46

Section 10 - Stability & Reactivity Data

Thermal decomposition /conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Materials to be avoided : None known.

Dangerous reactions no dangerous reactions known

Dangerous reactions No dangerous reaction known

Dangerous products of decomposition:

Sulfur dioxide

Metal oxide fume

Section 11 - Toxicological Information

Acute Toxicity:

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye:

Irritating effect.

Strong irritant with the danger of severe eye injury.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity:

Zinc containing fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales and dry cough.

Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, muscle cramps, blurred vision, nausea, fever, perspiration, vomiting and leukocytosis.

Section 12 - Ecological Information

Ecotoxicological effects:

Remark: Very toxic for fish

General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Also poisonous for fish and plankton in water bodies.

Do not allow material to be released to the environment without proper governmental permits.

Very toxic for aquatic organisms

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - MSDS Transport Information

Transport Information:

IATA Shipping Name: zinc sulfate monohydrate

Hazard Class: 9

Un Number: 3077

Packing Group: III

RID/ADR Shipping Name: zinc sulfate monohydrate

Hazard Class: 9

Un Number: 3077

Packing Group III

Section 15 - Regulatory Information

product related hazard informations:

Hazard symbols:

XN Harmful

N Dangerous for the environment

Risk Phrases:

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

22 Do not breathe dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

39 Wear eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment, refer to special instructions/safety data sheets

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency

Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use:

For use only by technically qualified individuals.

This product contains zinc and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to know Act of 1986 and 40CFR372.

Section **16** - Other Information

Other Information:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special. Indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.