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## ZINC SULPHATE MONOHYDRATE

### Section 1: Chemical Product and Company Identification

PRODUCT NAME:	Zinc Sulphate Monohydrate
SYNONYMS:	Zinc Sulfate Monohydrate
CHEMICAL FORMULA:	$\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
MOLECULAR WEIGHT:	179.445
CAS NO.:	7446-19-7
SUPPLIER NAME:	ISKY Chemicals Co., Ltd.
ADDRESS:	48 <sup>th</sup> Floor, Building C2 Wanda Plaza, No.589 Zhongshan Road, Changsha, Hunan, China
POST CODE:	410005
TELEPHONE NO.:	+86 (731) 8441-1501
FAX NO.:	+86 (731) 8441-1519
E-MAIL:	marketing@iskychem.com

### Section 2: Composition and Information on Ingredients

INGREDIENTS	% (BY WEIGHT)	CAS #	CLASSIFICATION
Zinc Sulphate Monohydrate	91%-100% (as $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$ )	7446-19-7 (monohydrate)	Not regulated (China GB 12268-2012)

### Section 3: Hazards Identification

HAZARD CLASS:	Not classified/regulated as dangerous goods (China GB 6944-2012 and GB 12268-2012)
ROUTES OF ENTRY:	Inhalation, ingestion, eye contact.
HEALTH HAZARDS:	Harmful if swallowed. Irritating to eyes and skin.
FIRE/EXPLOSION HAZARDS:	Not classified as fire and explosion hazards.

### Section 4: First Aid Measures

SKIN	Take off contaminated clothing, flush skin with plenty of water. Seek medical attention if symptoms persist.
EYES	Flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
INGESTION	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### Section 5: Fire and Explosion Data

ISKY Chemicals Co., Ltd.

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Tel: +86 (731) 84411500 Fax: +86 (731) 84411519 Website: www.iskychem.com

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## ZINC SULPHATE MONOHYDRATE

<b>EXTINGUISHING MEDIA:</b>	This product does not burn or support combustion. Use extinguishing media appropriate for surrounding fire.
<b>HAZARDS:</b>	This product is non-flammable.
<b>PROTECTION:</b>	Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

### Section 6: Accidental Release Measures

<b>PERSONAL PRECAUTIONS:</b>	Wear protective equipment to prevent skin and eye contamination and inhalation of dust.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Prevent entry into sewers or streams and other water bodies.
<b>DISPOSAL METHODS:</b>	Use appropriate tools to put the spilled material into a sealed container and hold for reuse or later disposal.

### Section 7: Handling and Storage

<b>HANDLING:</b>	Avoid breathing dust. Avoid contacting skin, eyes and clothing. Use with adequate ventilation. No smoking, eating and drinking water at workplace. Avoid prolonged or repeated exposure.
<b>STORAGE:</b>	Store in dry place, keep away from moisture and avoid physical damages.
<b>PRECAUTIONS:</b>	Please pay attention to <b>SECTION 10</b> CONDITIONS TO AVOID and MATERIALS TO AVOID.

### Section 8: Exposure Controls/Personal Protection

<b>EXPOSURE LIMITS:</b>	<ul style="list-style-type: none"> <li>- <b>CHINA GBZ 2-2002:</b> No data for Zinc Sulphate</li> <li>- <b>OSHA PEL:</b> N/A</li> <li>- <b>ACGIH TLV:</b> N/A</li> </ul>
<b>ENGINEERING CONTROLS:</b>	Use adequate exhaust ventilation to keep airborne concentrations below the allowable exposure limits.
<b>RESPIRATORY PROTECTION:</b>	Dustproof respirators.
<b>HAND PROTECTION:</b>	Protective gloves.
<b>EYE PROTECTION:</b>	Safety glasses. Goggles.
<b>SKIN AND BODY PROTECTION:</b>	Resistant protective clothing.
<b>HYGIENE PRECAUTIONS:</b>	No smoking, eating and drinking water at workplace. Washing hands before eating. Taking bath after work.

### Section 9: Physical and Chemical Properties

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## ZINC SULPHATE MONOHYDRATE

PHYSICAL STATE:	Solid
COLOUR:	White powder or granular.
ODOUR:	Odourless
pH VALUE:	4.0-7.0
MELTING POINT:	N/A
BOILING POINT:	N/A
DECOMPOSITION TEMPERATURE:	N/A
FLASH POINT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
EXPLOSION PROPERTIES:	No explosion property.
VAPOUR PRESSURE:	N/A
VAPOUR DENSITY(Air=1):	N/A
DENSITY/SPECIFIC GRAVITY (Water=1):	3.28
SOLUBILITY:	Readily soluble in water, slightly soluble in alcohol, insoluble in acetone.
OCTANOL/WATER PARTITION COEFFICIENT:	N/A

### Section 10: Stability and Reactivity Data

STABILITY	Stable under normal temperature conditions and recommended use.
CONDITIONS TO AVOID	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Avoid excessive heat for prolonged periods of time.
MATERIALS TO AVOID	Strong oxidizing substances. Strong reducing agents.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulfur oxides.

### Section 11: Toxicological Information

ACUTE TOXICITY:	Zinc Sulphate LD <sub>50</sub> (mice, oral): 583.2mg/kg. EYES: Stinging, tearing, redness. SKIN: Mild skin sensitiser, redness. INGESTION: vomiting, nausea, stomach pain, blood in the stool, inability to urinate. INHALATION: Cough, shortness of breath, etc.
CHRONIC EXPOSURE:	It may cause harmful effects on respiratory system, digestive system and circulatory system. May cause minor, reversible health effects on the lungs. Long-term exposures to high concentrations of dusts may increase mucous flow in the nose and airways, anemia, swelling or other skin eruptions.
TERATOGENICITY:	N/A
PRODUCTION TOXICITY:	N/A

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## ZINC SULPHATE MONOHYDRATE

**MUTAGENICITY:** N/A  
**CARCINOGENICITY:** Not listed as a suspected / confirmed carcinogen by IARC, NTP.

### Section 12: Ecological Information

**OVERVIEW** Don't allow undiluted product or large quantities to penetrate into ground water, water bodies or sewage system.  
**BIODEGRADABILITY:** N/A  
**ECOTOXICITY:** Zinc Sulphate LD<sub>50</sub> (mice): 583.2mg/kg.

### Section 13: Disposal Considerations

**METHODS OF DISPOSAL:** Dispose of according to all applicable governments' regulations.  
**CONTAMINATED PACKAGING:** Empty packaging should be recycled or disposed of through an approved waste management facility.

### Section 14: Transport Information

**PROPER SHIPPING NAME** Not regulated by IMDG/IMO  
**UN NO.** N/A  
**HAZARD CLASS (IMDG):** N/A  
**PACKING GROUP:** N/A  
**MARINE POLLUTANT:** N/A

### Section 15: Regulatory Information

China: Not listed as dangerous goods by GB 12268-2012.  
 International: Please pay attention to any applicable national regulations as to the hazard and safety information of this product.

### Section 16: Other Information

#### DISCLAIMER:

*The above information is based on our current knowledge and data obtained from other sources. While it is believed to be accurate, ISKY Chemical Co., Ltd. makes no representations as to its comprehensiveness and/or accuracy. Users must exercise their independent judgment in determining its appropriateness for a particular purpose and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.*