



ITTEHAD CHEMICALS LIMITED
Kala Shah Kaku

MSDS-Zinc Sulfate

Doc. # MSDS-ICL-Zinc
Rev. # 00

Effective Date: 01.01.2011

**Material Safety
Data Sheet**

**Zinc Sulfate
All Grades**

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Prepared By

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Address:

HEAD OFFICE:

39 Empress Road, P.O Box 1414, Lahore-54000-Pakistan
PABX: 6306586-88 & 6306482 Fax: 6365697

WORKS:

G.T Road, Kala Shah Kaku, District Sheikhpura-Punjab, Pakistan
PABX: 7950222, 23, 24, 7980045, 46 Fax: 7950206



ITTEHAD CHEMICALS LIMITED

Kala Shah Kaku

MSDS-Zinc Sulfate

MATERIAL SAFETY DATA SHEET Zinc Sulfate (All Grades)

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MATERIAL SAFETY DATA SHEET

Zinc Sulfate (Mono Hydrate)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:

Ittehad Chemicals Limited
20 K.M G.T Road Kala Shah Kaku
District Sheikhpura-Punjab, Pakistan

Contact Numbers

- (042) 37950221, 37950210, 37950209, 37950211 (round the clock)
- (042) 37950222,23,24,25, 37980045,46, 37980121, 37980454
(Exchange # from 0830 -1630)
- (042) 36314857, 36306586, 87, 88, 36306482
Lahore Office during 0900-1700 hrs
- Not on Sundays & Holidays

Note: For any change in Telephone Numbers please contact **17** of **PTCL** for assistance.

Trade Name: Zinc Sulfate, Zinc Sulfate

Synonyms: Sulfuric Acid- Zinc Salt, Zinc Vitriol Monohydrate, Zinc Sulfate

Product Uses: Agricultural use, Manufacture of viscose rayon fiber, Production of Zinc Stearate, as a catalyst in numerous chemical operations, as a corrosion inhibitor in cooling towers and municipal water systems, in production of pigments, preservation and clarification of glue, in flame proofing compounds, as a mining flotation agent, in wood preservatives, in electro metallurgy and electro galvanizing.

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2. MATERIAL IDENTIFICATION

| | |
|-------------------|-------------------|
| Common Name | Zinc Sulfate |
| Trade Name | Zinc Sulfate |
| Molecular Formula | ZnSO ₄ |
| Molecular Weight | 161.43 |
| CAS Number | 7446-19-7 |

3. HAZARDOUS IDENTIFICATION

This material or the components of this material are included in the Toxic Chemical Inventory as required in Section 8 (b) of the Toxic Substance Control Act (Public Law 94-469) and is codified in 40 CFR720.

Superfund Amendments and Reauthorization Act - Title II Applicability

Section 312 - 40 CFR 370.40:

Health Acute

Hazard Chronic

Section 313 Zinc Compounds - 40 CFR 372.85

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4. PHYSICAL DATA

| | |
|--------------------------------|--------------------------|
| Physical State | White powder or granules |
| Boiling Point | NA |
| Melting Point | 600° C (decomposes) |
| Specific Gravity | 3.54 |
| Solubility in H ₂ O | Soluble |
| Appearance | White powder or granules |

5. FIRE AND EXPLOSION DATA

| | |
|----------------------------|--|
| Flash Point | Not flammable |
| Extinguishing Media | Dry chemical, Carbon Dioxide or Foam. Water may be ineffective, but water spray or fog may be used as a cooling agent. |
| Fire and Explosion Hazards | May release toxic Oxides of Zinc and Sulfur in a fire. |

6. REACTIVITY DATA

| | |
|-----------------------|--|
| Stability | Stable at normal temperatures and pressures. |
| Thermal Decomposition | May release toxic and hazardous Oxides of Zinc and Sulfur. |
| Polymerization | Will not occur. |

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7. HEALTH AND HAZARD INFORMATION

| | |
|------------------|---|
| Route of Entry | Ingestion or inhalation |
| Target Organs | Respiratory system, eyes and skin |
| Acute Exposure | May cause skin irritation May cause eye irritation, possible corneal burn May cause gastrointestinal disturbance May cause irritation to nose and throat |
| Chronic Exposure | May cause skin dermatitis May cause eye conjunctivitis No know ingestion reaction anticipated May cause inhalation reflex brochoconstriction |

8. FIRST AID PROCEDURES

| | |
|------------|---|
| Swallowing | If person is conscious induce vomiting. Do not give anything by mouth to an unconscious person. |
| Skin | Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes. Call a physician. Wash contaminated clothing before reuse. |
| Eyes | Immediately flush eyes with plenty of water for 15 minutes. Hold eyelids apart during irrigation. Call a physician. |

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Inhalation Immediately remove person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Keep person warm and calm. Call a physician.

Carcinogenicity None

9. HANDLING PRECAUTIONS

Personal Protective Equipment

Respirators If exposure cannot be maintained at or below established OSHA guidelines, respiratory protection must be provided in accordance with 29 CFR 1910.134 requirements.

Skin Protection Wear appropriate protective clothing and chemical resistant gloves as needed to prevent skin contact. Consult manufacturer to determine appropriate type of gloves or clothing for your particular application. Clean contaminated clothing and protective equipment before reuse. Wash thoroughly after handling material.

Ventilation Provide local exhaust or process enclosing ventilation to maintain exposures below OSHA guidelines 29 CFR 1910.1000 subpart 7.

10. GENERAL GUIDELINES

Known concentrations <PEL* with oxygen levels >19.5%, No respirator is required.

Known concentrations >PEL* <IDLH* with oxygen levels >19.5%,

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Air purifying full-face piece respirator with high-efficient particulate filters

Unknown concentration and/or IDLH* and/or oxygen levels <19.5%

Self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode. Supplied-air respirator with full-face piece operated in pressure demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

11. SPILL OR LEAK PROCEDURES

Spills and Leaks Comply with Federal, State and local regulations on reporting spills. 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, State and local regulations. Zinc Sulfate Solutions should be flushed with plenty of water to an approved chemical sewer.

Waste Disposal Comply with Federal, State and local regulations. Zinc Sulfate Solutions can be carefully reacted with Sodium Carbonate to form an insoluble Zinc Carbonate solid that can be scooped up and sent to a disposal contractor.

12. SPECIAL PRECAUTIONS

Storage Store in a cool dry place.

Other Precautions Do not take internally.

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13. REGULATORY INFORMATION

U.S. REGULATIONS: SARA 313 Information; This product contain the following substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: **ZINC COMPOUND** 40.5%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: **AN IMMEDIATE HEALTH HAZARD.**

14. DISCLAIMER:

The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. No warranty of merchantability or of fitness for a particular purpose, or warranty or guaranty of any other kind, express or implied, is made regarding performance, safety, suitability, stability or otherwise. This information is not intended to be all inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and Ittehad Chemicals Ltd. Assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer.

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