

**MATERIAL SAFETY DATA SHEET**

**EM SCIENCE**

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Manufacturer.....:**

EM SCIENCE  
A Division of EM Industries  
P.O. Box 70  
480 Democrat Road  
Gibbstown, N.J. 08027

**Preparation Date.:** 11/9/99

**Information Phone Number.:** 856-423-6300

**Hours:** Mon. to Fri. 8:30-5

**Chemtrec Emergency Number:** 800-424-9300

**Hours:** 24 hrs a day

**Catalog Number(s):**

ZX0105 ZX0107 8883 ZX0112 00888161 0088816C

**Product Name:**

Zinc Sulfate

**Synonyms:**

Zinc Sulfate Heptahydrate

**Chemical Family:**

Metal Salt

**Formula:**

$ZnSO_4 \cdot 7H_2O$

**Molecular Weight.:**

287.56

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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### 3. HAZARDS IDENTIFICATION

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#### **EMERGENCY OVERVIEW**

MAY BE HARMFUL IF SWALLOWED.

IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES.

#### **Appearance:**

Colorless to white odorless crystals or powder



Component	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	Skin
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Zinc Sulfate

### ACGIH - TLV:

Component	PPM	TWA	PPM	STEL	PPM	CL	Skin
		MG/M3		MG/M3		MG/M3	

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Zinc Sulfate

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Boiling Point (C 760 mmHg) :** 500C Decomposes

**Melting Point (C) :** 100C

**Specific Gravity (H<sub>2</sub>O = 1) :** 1.97

**Vapor Pressure (mm Hg) :** N/A

**Percent Volatile by vol (%) :** N/A

**Vapor Density (Air = 1) :** N/A

**Evaporation Rate (BuAc = 1) :** <1

**Solubility in Water (%) :** Soluble

**Appearance :**

Colorless to white odorless crystals or powder

## 10. STABILITY AND REACTIVITY

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**Stability:** Yes

**Hazardous Polymerization:**

Does not occur

**Hazardous Decomposition:**

ZnO, SO<sub>x</sub>

**Conditions to Avoid:**

Extreme heat

**Materials To Avoid:**

(X) Water

(X) Acids

- ( ) Bases
- ( ) Corrosives
- ( ) Oxidizers
- ( ) Other:

## 11. TOXICOLOGICAL INFORMATION

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### Toxicity Data

orl-rat LD50: 2150 mg/kg

### Toxicological Findings:

Test on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

## 12. DISPOSAL CONSIDERATIONS

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### EPA Waste Numbers:

### Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

## 13. TRANSPORT INFORMATION

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### DOT Proper Shipping Name:

Environmentally Hazardous Substance, Solid, n.o.s. (Zinc Sulfate)

### DOT ID Number :

UN3077

## 14. REGULATORY INFORMATION

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### TSCA Statement:

This product is a "Mixture". The CAS numbers of all components are listed on the TSCA Inventory.

Component	EHS (302)	EHS TPQ (lbs)	RQ (lbs)
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Zinc Sulfate

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
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Zinc Sulfate

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

## 15. OTHER INFORMATION

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### Comments:

None

### NFPA Hazard Ratings:

Health : 2  
Flammability : 0  
Reactivity : 0  
Special Hazards :

**Revision History:** 6/1/82 10/1/83 10/27/87 12/14/89  
3/1/91 12/11/92 8/10/93 2/4/97 5/12/98

| = Revised Section

N/A = Not Available

N/E = None Established

The statements contained herein are offered for informational purposes only and are based upon technical data that EM Science believes to be accurate. It is intended for use only by persons having the necessary technical