

MATERIAL SAFETY DATA SHEET

EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

3. HAZARDS IDENTIFICATION

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	

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

Boiling Point (C 760 mmHg) : 500C Decomposes

Melting Point (C) : 100C

Specific Gravity (H₂O = 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

Stability: Yes

Hazardous Polymerization:

Does not occur

Hazardous Decomposition:

ZnO, SO_x

Conditions to Avoid:

Extreme heat

Materials To Avoid:

(X) Water

(X) Acids

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

11. TOXICOLOGICAL INFORMATION

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

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

DOT Proper Shipping Name:

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

DOT ID Number :

UN3077

14. REGULATORY INFORMATION

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

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