Safety Data Sheet



Issuing Date 24-Sep-2009 Revision Date 13-May-2011 Revision Number 1

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Zinc Sulfate, Heptahydrate

Product Code(s) 0270

Recommended Use For Further Manufacturing Use Only

Not for Human or Animal Drug Use

Synonyms SULFURIC ACID, ZINC SALT (1:1), HEPTAHYDRATE * WHITE VITRIOL

(HEPTAHYDRATE) * ZINC SULFATE (1:1) HEPTAHYDRATE * ZINC

VITRIOL(HEPTAHYDRATE) *

Company
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Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number

E-mail Address

1-800-448-4442

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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Eye Irritant 2

Signal Word Warning



Hazard Statements H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May

cause respiratory irritation

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Zinc sulfate heptahydrate	-	Not available	7446-20-0	95-100	Xn;R22 R41 N;R50-53

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point Not determined

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Hazardous Combustion Products Sulfur oxides

Explosion Data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
Not sensitive
Not sensitive

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Handling

Hygroscopic.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygroscopic.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc sulfate heptahydrate			
7446-20-0			

Engineering Measures Showers

> Eyewash stations Ventilation systems

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles **Skin and Body Protection**

Wear protective gloves/clothing

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White

No information available Odor **Odor Threshold** No information available **Decomposition Temperature °C** No information available No information available **Freezing Point Initial Boiling Point** No information available **Physical State** Crystalline Powder Ha No data available **Flash Point** Not determined **Autoignition Temperature** No data available **Boiling Point/Range** No data available

Melting Point/Range 50 °C

Flammability Limits in Air Upper No data available Lower No data available

Explosive PropertiesOxidizing Properties
No information available
No information available

Evaporation Rate

MMHG @ 37.8 C

Vapor Density

No data available

No data available

No data available

Specific Gravity 1.957

Solubility No information available

Partition Coefficient No data available

(n-octanol/water)

Viscosity No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products Strong oxidizing agents.

Conditions to Avoid Hygroscopic.

Hazardous Decomposition Products Sulfur oxides.

Hazardous Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Causes skin, eye and respiratory tract irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc sulfate heptahydrate	2150 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Kidneys, Liver, Lungs, Pancreas.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Zinc sulfate heptahydrate	EC50 = 2.4 mg/L 96 h EC50 = 64.8 mg/L 72 h			

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Zinc sulfate heptahydrate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing,	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
	Transferring, or				

Zinc sulfate heptahydrate 7446-20-0 (95-100)	Not applicable	97-1-91, 25 % or more in mixtures (except zinc carbonate and zinc fulminate)	Not applicable	>= 1.0 %
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International Inventories

Does not Comply **TSCA EINECS/ELINCS** Does not Comply Does not Comply **ENCS** Complies **IECSC** Does not Comply **KECL**

PICCS Complies

AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc sulfate heptahydrate	7446-20-0	95-100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes **Chronic Health Hazard** No Fire Hazard No Sudden Release of Pressure Hazard No **Reactive Hazard** No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc sulfate heptahydrate		X		
7446-20-0 (95-100)				

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zinc sulfate heptahydrate		X	X		

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 24-Sep-2009

Revision Date 13-May-2011

Revision Note

No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS