

AERCHEM INC.
320 N. Walnut Street
Bloomington, IN 47404

Tel: 812.334.9996

Fax: 812.334.1960

Emergency: 800.424.9300

Effective Date: 8/12/96

Product Name: Zinc Sulfate

Chemical Formula: Hexahydrate= $ZnSO_4 \cdot 6H_2O$
Monohydrate= $ZnSO_4 \cdot H_2O$

Cas No.: 7733-02-0

Hazardous Ingredients:

	<u>Percent</u>	<u>PEL/TLV</u>
Zinc Sulfate as Zinc Compound	100%	Not Established

Physical Data:

Melting point (range) Approx.:	100(Hexahydrate)
Boiling point°C:	500 Decomposes
Specific Gravity (Water=1):	1.97
pH (50g/L in water):	4.4 to 6.0
Solubility in water:	117 g/100cc
Odor Threshold:	Not available
Physical Form:	White Powder, granules, crystals
Vapor pressure(mm Hg):	N/A
Vapor density(Air=1):	N/A

Fire and Explosion Information:

Flash point:	N/A
(Auto) Ignition temperature (°F):	Unknown
Extinguishing media to be recommended:	Water, Foam, CO ₂ , Dry Chemical
Extinguishing media to be avoided:	None

Special fire and explosions precautions:

Wear full protective clothing and NIOSH approved self contained breathing apparatus with full facepiece operated in pressure demand or other positive pressure mode. Water spray may be used to keep fire-exposed containers cool. Zinc sulfate can decompose at high temperatures to form toxic oxides, sulfur and zinc oxide as well as vapor, sealed containers of this material may rupture at moderate temperatures(release of water vapor). Forms acidic solutions in water.

Fire and explosions hazards:

Poisonous gases are produced in fire, including Zinc oxide and oxides of sulfur.

Reactivity Data: Stable X Unstable _____

Hazardous Decomposition: Decomposes above 740 C to give SO₂

Hazardous Polymerization: Will not happen

Incompatibility:: None

Handling and Storage Information:

Store in a cool dry place. Hexahydrate will cake in storage

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Leak/Spill Information:

Restrict person on wearing protective equipment from area of spill until cleanup is complete. Ventilate the area of spill. Collect powdered material in the convenient and safe manner and deposit in sealed containers.

Disposal Information:

It may be necessary to contain and dispose of Zinc Sulfate as a hazardous waste. Contact your regional office of the environmental protection agency (EPA) for specific recommendations. Use licensed waste hauler.

RCRA Hazardous Waste: NO
CERCLA: YES

RQ(1,000)(as Zinc Compound)
Follow all local state and Federal Information and Regulations

Health Hazard

Information:

A. Exposure/Health Effects

Chronic Exposures:

Moderately irritant to respiratory passages, cough may develop. Irritant to skin-redness may develop. May cause mutations (Genetic changes) in living cells. Whether or not imposes a cancer hazard needs further study. May damage the developing fetus. At high doses it may cause spontaneous abortions or stillbirths. Chronic(long term) health effects are unknown at this time.

Listed Carcinogen:	None
Threshold limit value:	Not Established
Primary routes of Exposure:	Eyc or skin contact, inhalation, ingestion
Oral ID:	1891 mg/kg
Dermal Irritaion-rabbit:	Not Available
Eye irritation-Rabbit:	420 ug Moderate
OSHA PEL:	Not Available
ACGIH TLV:	Not Available

B. First Aid:

Skin: Quickly remove contaminated clothing. Immediately wash contaminated skin with large amounts of soap and water.

Eyes: Immediately flush with large amounts of water, continue without stopping for at least 30 minutes, occasionally lifting upper and lower lids. Seek medical attention immediately.

Inhalation: Irritant by inhalation remove from contaminated area, seek medical attention

Ingestion: Give teaspoon of dibasic sodium phosphate in water, then a teaspoon of salt in glass of warm water and repeat until omit is clear. Seek medical attention.

C. Toxicity Data

D. Occupational Control Measures

Respiratory Equipment: Where the potential for high exposures exist, use a MSHA/NIOSH approved full facepiece respirator with a high efficiency particulate filter. Or if available use a MSHA/NIOSH approved supplied-air respirator with a full face piece, hood or helmet in the continuous flow mode, or use a MSHA/NIOSH approved self contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode

Ventilation Systems: Local Exhaust

Skin Protection: Protect against sifting to skin wear dust proof goggles and face shield when working with powders and dust, unless full facepiece respiratory protection is worn.

Eye Protection: Wear dust proof goggles and face shield when working with powders and dust, unless full facepiece respiratory protection is worn.

Protective Gloves: Rubber, PVC
