



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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SAFETY DATA SHEET

Hi Valley Chemical

Zinc Sulfate Monohydrate

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Zinc Sulfate Monohydrate
SDS Number: R-082
Revision Date: 3/17/2016
Version: 1
CAS Number: 7446-19-7
Chemical Formula: ZnSO4·H2O
Supplier Details: High Valley Products, Inc.
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Centerville, Utah 84014
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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Oral
Health, Serious Eye Damage/Eye Irritation, 1
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H302 - Harmful if swallowed
H318 - Causes serious eye damage
H410 - Very toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P330 - Rinse mouth.
P501 - Dispose of contents/container to approved waste facility.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7446-19-7	100%	zinc sulfate monohydrate

4 FIRST AID MEASURES

- Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin Contact:** Promptly flush skin with soap water until all chemical is removed.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
- Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

- Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture
Sulfur oxides / zinc oxides
No data available
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
Further information
No data

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:**
Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- Environmental precautions:**
Do not let product enter drains.
- Methods and materials for containment and cleaning up:**
Pick up material without creating dust and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

- Handling Precautions:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- Storage Requirements:** Keep container tightly closed. Store in cool/dry area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment:** Personal protective equipment
- Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be

selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Exposure Guidelines
Zinc sulfate : no data available

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Powder
Physical State:	Powder
Odor:	None
Odor Threshold:	No data available
Solubility:	53.8 g/100 ml at 20°C (68°F); 89.5 g/100 ml at 100°C (212°F)
Spec Grav./Density:	3.28
Viscosity:	No data available
Boiling Point:	No data available
Freezing/Melting Pt.:	Loses water at 238°C (460°F); Decomposes at 680°C (1256°F)
Flash Point:	No data available
Partition Coefficient:	No data available
Vapor Pressure:	negligible @ 20°C (68° F)
Vapor Density:	No data available
pH:	4.5 @ saturated solution
Evap. Rate:	No data available
Auto-Ignition Temp:	No data available
Decomp Temp:	No data available
UFL/LFL:	No data available

10

STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid moisture
Materials to Avoid:	Strong Oxidizing Agents.
Hazardous Decomposition:	No data available

11

TOXICOLOGICAL INFORMATION

Zinc sulfate []

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: Not available

Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin., burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Cardiovascular effects., pulmonary edema, congestive heart failure
Stomach - Irregularities - Based on Human Evidence

12

ECOLOGICAL INFORMATION

Zinc sulfate []

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13

DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

Non D.O.T. regulated

Component (CAS#) [%] - CODES

Zinc Sulfate monohydrate (7446-19-7) [n/a%] CERCLA, CSWHS, EPCRAWPC, MASS, PA

Regulatory CODE Descriptions

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances

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Author: HVC

Publication Date: 3-17-16

Revision No. 1