



HI-VALLEY CHEMICAL
LABORATORY PRODUCTS

1134 W. 850 N. CENTERVILLE, UT 84014
(801) 295-9591 Fax (801) 295-9448
www.hvchemical.com

SAFETY DATA SHEET

Hi Valley Chemical

Zinc Dust

1 PRODUCT AND COMPANY IDENTIFICATION

Supplier Details: High Valley Products, Inc.
1134 West 850 North
Centerville, Utah 84014

Emergency: PERS: 800-633-8253

Phone: 801-295-9591

Email: sales@hvchemical.com

Web: www.hvchemical.com

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

Environmental, Hazards to the aquatic environment - Chronic, 1
Physical, Self-Heating Substances and Mixtures, 1
Physical, Substances and Mixtures which, in contact with water, emit Flammable Gases, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H410 - Very toxic to aquatic life with long lasting effects
H251 - Self-heating; may catch fire
H260 - In contact with water releases flammable gases which may ignite spontaneously

GHS Precautionary Statements:

P223 - Do not allow contact with water.
P231 + P232 - Handle and store contents under inert gas/.... Protect from moisture.
P235 + P410 - Keep cool. Protect from sunlight.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P335 + P334 - Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P402 + P404 - Store in a dry place. Store in a closed container.
P407 - Maintain air gap between stacks or pallets.
P420 - Store separately.
P501 - Dispose of contents/ container to an approved waste disposal plant.

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name

4 FIRST AID MEASURES

Inhalation:	If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact:	Wash with soap and water. Consult a physician.
Eye Contact:	Flush eyes with water as a precaution.
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
 Dry powder

Special hazards arising from the substance or mixture
 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 dust, vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking.

Storage Requirements: Store in cool/dry area. Well ventilated area. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment: Zinc powder or Zinc dust cas#:(7440-66-6) [99%]

Personal protective equipment

Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break

through time: > 480 min Material tested: Dermatril (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested: Dermatril (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Zinc powder or Zinc dust cas#:(7440-66-6) [99%]

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder, grey
Odor:	No data available
Odor Threshold:	No data available
Solubility:	No data available
Spec Grav./Density:	7.0 - 7.1
Viscosity:	No data available
Boiling Point:	1665°F (906°C)
Freezing/Melting Pt.:	787°F (419°C)
Flash Point:	No data available
Partition Coefficient:	log Pow: 5
Vapor Pressure:	1 hPa (1 mmHg) at 487 °C (909 °F)
Vapor Density:	No data available
pH:	No data available
Evap. Rate:	No data available
Auto-Ignition Temp:	No data available
Decomp Temp:	No data available
UFL/LFL:	No data available

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STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Heat, flames, ignition sources and incompatibles like sulphur, strong oxidizing agents and alkaline hydroxides.
Hazardous Decomposition:	Heat generated zinc oxide fume. Contact with acids or alkaline hydroxides may generate hydrogen gas, which is flammable. Reactivity with water is similar but very slow. Under normal conditions, zinc dust is stable.

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TOXICOLOGICAL INFORMATION

Zinc powder or Zinc dust cas#:(7440-66-6) [99%]

Information on toxicological effects

Acute toxicity:
Oral LD50 no data available
Inhalation LC50
Dermal LD50
Other information on acute toxicity

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: Did not cause sensitization on laboratory animals.

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

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information:

RTECS: ZG8600000

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ECOLOGICAL INFORMATION

Zinc powder or Zinc dust cas#:(7440-66-6) [99%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 450 µg/l - 96 h.

Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 0.068 mg/l - 48 h.

and other aquatic invertebrates

mortality NOEC - Daphnia - 0.101 - 0.14 mg/l - 7 d

Persistence and degradability: no data available

Bioaccumulative potential: Bioaccumulation Algae - 7 d at 16 °C Bioconcentration factor (BCF): 466

Mobility in soil: no data available

PBT and vPvB assessment: no data available

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.
no data available

13 **DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

14 **TRANSPORT INFORMATION**

15 **REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

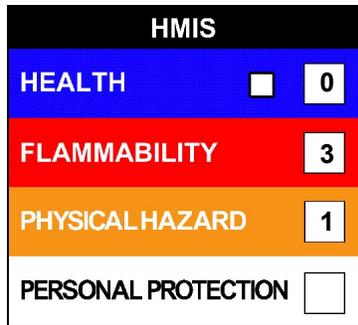
RQ(1000LBS), Zinc powder or Zinc dust (7440-66-6) [96%] CERCLA, EPCRAWPC, MASS, NJHS, PA, PRIPOL, SARA313, TOXICPOL, TSCA

Regulatory CODE Descriptions

- RQ = Reportable Quantity
- CERCLA = Superfund clean up substance
- EPCRAWPC = EPCRA Water Priority Chemicals
- MASS = MA Massachusetts Hazardous Substances List
- NJHS = NJ Right-to-Know Hazardous Substances
- PA = PA Right-To-Know List of Hazardous Substances
- PRIPOL = Clean Water Act Priority Pollutants
- SARA313 = SARA 313 Title III Toxic Chemicals
- TOXICPOL = Clean Water Act Toxic Pollutants
- TSCA = Toxic Substances Control Act

16 **OTHER INFORMATION**

NFPA: Health = 0, Fire = 3, Reactivity = 1, Specific Hazard = n/a
HMIS III: Health = 0, Fire = 3, Physical Hazard = 1



Disclaimer:

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