



# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** ZINC PHENOLSULFONATE OCTAHYDRATE

**Other means of identification**

**Product No.:** WF1071

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor Information**

**Distributor**

Company Name: Silver Fern Chemical, Inc.

Address: 2226 Queen Anne Ave N

Customer: Seattle, WA 98109

Service: 866-282-3384

Fax: 206-282-0105

e-mail: info@silverfernchemical.com

**Emergency telephone number:**

Infotrac : 800-535-5053

Outside USA & Canada : 352-323-3500

## 2. Hazard(s) identification

**Hazard Classification**

**Health Hazards**

Acute toxicity (Oral)

Category 4

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning,

**Hazard Statement:** Harmful if swallowed.

**Precautionary Statement**

**Prevention:** Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response:** IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

### 3. Composition/information on ingredients

#### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
ZINC PHENOSULFONATE OCTAHYDRATE		1300-55-6	100%
ZINC PHENOLSULFONATE ANHYDROUS		127-82-2	About 75% when dried

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

<b>General information:</b>	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion:</b>	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Inhalation:</b>	Move to fresh air. Get medical attention if symptoms persist.
<b>Skin Contact:</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
<b>Eye contact:</b>	Flush thoroughly with water. If irritation occurs, get medical assistance.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** May cause irritation to skin, eyes, and respiratory tract.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or regular foam.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

**Special protective equipment for fire-fighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

<b>6. Accidental release measures</b>
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**Personal precautions, protective equipment and emergency procedures:**

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:**

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:**

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

<b>7. Handling and storage</b>
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**Precautions for safe handling:**

Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Do not taste or swallow. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:**

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

<b>8. Exposure controls/personal protection</b>
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**Control Parameters****Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment****General information:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:**

Use tight fitting goggles if dust is generated.

**Skin Protection****Hand Protection:**

Wear protective gloves.

**Other:**

Wear suitable protective clothing.

**Respiratory Protection:**

In case of inadequate ventilation use suitable respirator.

**Hygiene measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	Solid
<b>Form:</b>	Granules
<b>Color:</b>	White, Off-white

<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	257 °C
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.

### Upper/lower limit on flammability or explosive limits

<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.

<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.

### Solubility

<b>Solubility in water:</b>	Soluble
<b>Solubility (other):</b>	Alcohol: 556 g/l (25 °C)

<b>Partition coefficient (n-octanol/water):</b>	1.370
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<b>Auto-ignition temperature:</b>	No data available.
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<b>Decomposition temperature:</b>	No data available.
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<b>Viscosity:</b>	No data available.
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### Other information

<b>Molecular weight:</b>	411.73 g/mol (C <sub>6</sub> H <sub>6</sub> O <sub>4</sub> S.1/2Zn) Anhydrous
<b>Molecular weight:</b>	555.85 g/mol (C <sub>12</sub> H <sub>10</sub> O <sub>8</sub> S <sub>2</sub> Zn*8H <sub>2</sub> O) Octahydrate

## 10. Stability and reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
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<b>Chemical Stability:</b>	Material is stable under normal conditions.
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<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
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<b>Conditions to Avoid:</b>	Contact with incompatible materials.
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<b>Incompatible Materials:</b>	Acids. Alkali metals.
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<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Sulfur dioxide gas may be liberated from the product.
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## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion:** Harmful if swallowed. **Inhalation:** May cause irritation to the respiratory system.

**Skin Contact:** May cause irritation.

**Eye contact:** May cause temporary eye irritation.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

**Product:** LD 50 (Rat): 1,800 mg/kg  
LD 50 (Mouse): 3,000 mg/kg

##### Dermal

**Product:** LD (Guinea Pig): 3,000 mg/kg

##### Inhalation

**Product:** LC 50 (Rat, ): 208 mg/l

#### Repeated Dose Toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** May cause skin irritation.

#### Serious Eye Damage/Eye Irritation

**Product:** May irritate eyes.

#### Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

#### Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

#### Germ Cell Mutagenicity

##### In vitro

**Product:** No mutagenic components identified

##### In vivo

**Product:** No mutagenic components identified

#### Reproductive Toxicity

**Product:** No components toxic to reproduction

#### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** Not classified

**Other Effects:** None known.

<b>12. Ecological information</b>
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**Ecotoxicity:****Acute hazards to the aquatic environment:****Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:****Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability****Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative Potential****Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: 1.370

**Mobility in Soil:** No data available.

**Other Adverse Effects:** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

<b>13. Disposal considerations</b>
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**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

**14. Transport information****DOT**

Non Regulated when less than 5000 pounds. Above 5000 UN 3077 IMO Class 9

**IMDG**

Non Regulated when less than 5000 pounds. Above 5000 UN 3077 IMO Class 9

**IATA**

Non Regulated when less than 5000 pounds. Above 5000 UN 3077 IMO Class 9

**15. Regulatory information****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

ZINC PHENOSULFONATE Reportable quantity: 5000 lbs.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**
☒ Acute (Immediate)
 ☐ Chronic (Delayed)
 ☐ Fire
 ☐ Reactive
 ☐ Pressure Generating
**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

Chemical Identity	RQ
ZINC	5000 lbs.
PHENOSULFONATE	

**SARA 311/312 Hazardous Chemical**

Chemical Identity	Threshold Planning Quantity
ZINC	500 lbs
PHENOSULFONATE	

**SARA 313 (TRI Reporting)**

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
ZINC	10000 lbs	25000 lbs.
PHENOSULFONATE		

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

ZINC PHENOSULFONATE Reportable quantity: 5000 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

ZINC PHENOSULFONATE      Listed

**US. Massachusetts RTK - Substance List**ZINC      Listed  
PHENOSULFONATE**US. Pennsylvania RTK - Hazardous Substances**

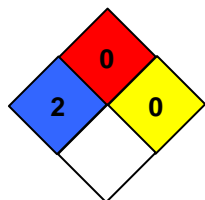
ZINC PHENOSULFONATE      Listed

**US. Rhode Island RTK**

ZINC PHENOSULFONATE      Listed

**Inventory Status:**

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

**16. Other information, including date of preparation or last revision****NFPA Hazard ID**

	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue Date:** 04-04-2008**Revision Date:** 4-25-2016**Revision #:** 10**Further Information:**

**Disclaimer:**

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