



Health	1
Fire	0
Reactivity	0
Personal Protection	A

# Material Safety Data Sheet

## Zinc Stock Solution for Zinc APHA MSDS

### Section 1: Chemical Product and Company Identification

**Product Name:** Zinc Stock Solution for Zinc APHA

**Catalog Codes:** SLZ1123

**CAS#:** Mixture.

**RTECS:** Not applicable.

**TSCA:** TSCA 8(b) inventory: Water; Zinc Metal, Ganular 30 mesh; Hydrochloric acid

**CI#:** Not applicable.

**Synonym:** Zinc Stock Solution for Zinc APHA (1ml = 100 ug Zn)

**Chemical Name:** Not applicable.

**Chemical Formula:** Not applicable.

#### Contact Information:

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US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: [ScienceLab.com](http://ScienceLab.com)

**CHEMTREC (24HR Emergency Telephone), call:**  
1-800-424-9300

**International CHEMTREC, call:** 1-703-527-3887

**For non-emergency assistance, call:** 1-281-441-4400

### Section 2: Composition and Information on Ingredients

#### Composition:

Name	CAS #	% by Weight
Water	7732-18-5	99.9-99.9
Zinc Metal, Ganular 30 mesh	7440-66-6	0.1
Hydrogen chloride	7647-01-0	0.01-0.019

#### Toxicological Data on Ingredients:

### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

#### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available. **DEVELOPMENTAL TOXICITY:** Not available. The substance may be toxic to skin, eyes, teeth. Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

### Section 5: Fire and Explosion Data

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of open flames and sparks, of shocks.

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

### Section 6: Accidental Release Measures

**Small Spill:**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7: Handling and Storage

**Precautions:** No specific safety phrase has been found applicable for this product.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Personal Protection:** Safety glasses. Lab coat.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Liquid.

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** Not applicable.

**Color:** Colorless.

**pH (1% soln/water):** Neutral.

**Boiling Point:** The lowest known value is 100°C (212°F) (Water).

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** The only known value is 1 (Water = 1) (Water).

**Vapor Pressure:** The highest known value is 2.3 kPa (@ 20°C) (Water).

**Vapor Density:** The highest known value is 0.62 (Air = 1) (Water).

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** The product is much more soluble in water.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water, diethyl ether.

### Solubility:

Easily soluble in cold water, hot water. Partially soluble in diethyl ether. Insoluble in methanol, n-octanol, acetone.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not Available

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Incompatible with acids, halogenated hydrocarbons, NH<sub>4</sub>NO<sub>3</sub>, barium oxide, Ba(NO<sub>3</sub>)<sub>2</sub>, Cadmium, CS<sub>2</sub>, chlorates, Cl<sub>2</sub>, CrO<sub>3</sub>, F<sub>2</sub>, Hydroxylamine, Pb(N<sub>3</sub>)<sub>2</sub>, MnCl<sub>2</sub>, HNO<sub>3</sub>, performic acid, KClO<sub>3</sub>, KNO<sub>3</sub>, N<sub>2</sub>O<sub>2</sub>, Selenium, NaClO<sub>3</sub>, Na<sub>2</sub>O<sub>2</sub>, Sulfur, Te, water, (NH<sub>4</sub>)<sub>2</sub>S, As<sub>2</sub>O<sub>3</sub>, CS<sub>2</sub>, CaCl<sub>2</sub>, chlorinated rubber, catalytic metals, halocarbons, o-nitroanisole, nitrobenzene, nonmetals, oxidants, paint primer base, pentacarbonoyliron, transition metal halides. seleninyl bromide, HCl, H<sub>2</sub>SO<sub>4</sub>, (Mg +Ba(NO<sub>3</sub>)<sub>2</sub> +BaO<sub>2</sub>), (ethyl acetoacetate +tribromoneopentyl alcohol. Contact with Alkali Hydroxides(Sodium Hydroxide, Potassium Hydroxide, Calcium Hydroxide, etc) results in evolution of hydrogen. Ammonium nitrate + zinc + water causes a violent reaction with evolution of steam and zinc oxide. It may react vigorously or explosively on contact with water. (Zinc Metal, Ganular 30 mesh)

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact.

**Toxicity to Animals:**

LD<sub>50</sub>: Not available. LC<sub>50</sub>: Not available.

**Chronic Effects on Humans:** May cause damage to the following organs: skin, eyes, teeth.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: May cause slight skin irritation. Eyes: May cause slight eye irritation. Inhalation: Not expected to be hazardous by inhalation. Breathing mist or vapor may cause respiratory tract irritation. Ingestion: Not expected to be hazardous. Ingestion of large doses may cause nausea and general gastrointestinal tract upset.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD<sub>5</sub> and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## Section 15: Other Regulatory Information

### Federal and State Regulations:

Connecticut hazardous material survey.: Hydrochloric acid Illinois toxic substances disclosure to employee act: Hydrochloric acid Illinois chemical safety act: Hydrochloric acid New York release reporting list: Zinc Metal, Ganular 30 mesh; Hydrochloric acid Rhode Island RTK hazardous substances: Zinc Metal, Ganular 30 mesh; Hydrochloric acid Pennsylvania RTK: Zinc Metal, Ganular 30 mesh; Hydrochloric acid Florida: Zinc Metal, Ganular 30 mesh Minnesota: Hydrochloric acid Michigan critical material: Zinc Metal, Ganular 30 mesh Massachusetts RTK: Zinc Metal, Ganular 30 mesh; Hydrochloric acid Massachusetts spill list: Hydrochloric acid New Jersey: Zinc Metal, Ganular 30 mesh; Hydrochloric acid New Jersey spill list: Hydrochloric acid Louisiana RTK reporting list: Hydrochloric acid Louisiana spill reporting: Hydrochloric acid TSCA 8(b) inventory: Water; Zinc Metal, Ganular 30 mesh; Hydrochloric acid TSCA 4(a) proposed test rules: Hydrochloric acid TSCA 12(b) one time export: Zinc Metal, Ganular 30 mesh SARA 302/304/311/312 extremely hazardous substances: Hydrochloric acid CERCLA: Hazardous substances.: Zinc Metal, Ganular 30 mesh: 1000 lbs. (453.6 kg); Hydrochloric acid: 5000 lbs. (2268 kg);

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

### Other Classifications:

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

### DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

### HMIS (U.S.A.):

**Health Hazard:** 1

**Fire Hazard:** 0

**Reactivity:** 0

**Personal Protection:** a

### National Fire Protection Association (U.S.A.):

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

### Protective Equipment:

Not applicable. Lab coat. Not applicable. Safety glasses.

## Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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