



Material Safety Data Sheet

Zinc acetate dihydrate

MSDS# 25250

Section 1 - Chemical Product and Company Identification

MSDS Name: Zinc acetate dihydrate  
Catalog Numbers: AC207640000, AC207640010, AC207640050, AC317210000, AC317215000, Z20-500, Z20-500LC  
Synonyms: Acetic acid, zinc salt, dihydrate.

Company Identification:

Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call:

201-796-7100

Emergency Number US:

201-796-7100

CHEMTREC Phone Number, US:

800-424-9300

Section 2 - Composition, Information on Ingredients

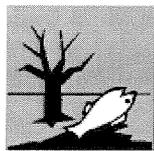
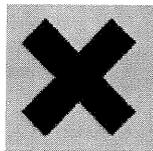
Risk Phrases:

CAS#: 5970-45-6  
Chemical Name: Zinc acetate dihydrate  
%: 98+  
EINECS#: unlisted  
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols:

XN N



Risk Phrases:

22 36 50

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Causes eye irritation. Harmful if swallowed. Very toxic to aquatic organisms. Target Organs: Eyes.

Potential Health Effects

Eye: Causes eye irritation.  
Skin: May cause skin irritation. May be harmful if absorbed through the skin.  
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.  
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.  
Chronic: Chronic exposure may cause kidney damage.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin: Get medical aid. Rinse area with large amounts of water for at least 15 minutes.  
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.  
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: health: 2; flammability: 1; instability: 0;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Zinc acetate anhydrous	none listed	none listed	none listed
Zinc acetate dihydrate	none listed	none listed	none listed

OSHA Vacated PELs: Zinc acetate anhydrous: None listed Zinc acetate dihydrate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: white

Odor: faint odor - acetic odor

pH: 6.0 - 7.0 (5% in water (25°C))

Vapor Pressure: Not available  
Vapor Density: Not available  
Evaporation Rate: Not available  
Viscosity: Not available  
Boiling Point: Not available  
Freezing/Melting Point: 100 deg C ( 212.00°F)  
Decomposition Temperature: Not available

Solubility in water: 430 g/L (20°C)

Specific Gravity/Density: 1.840

Molecular Formula: Zn(CH3COO)2.2H2O

Molecular Weight: 219.50

#### Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, zinc oxides.
Hazardous Polymerization	Will not occur.

#### Section 11 - Toxicological Information

RTECS#: CAS# 557-34-6: AK1500000  
CAS# 5970-45-6: ZG8750000

RTECS:

**CAS# 557-34-6:** Oral, rat: LD50 = 2510 mg/kg;

RTECS:

LD50/LC50: **CAS# 5970-45-6:** Draize test, rabbit, eye: 20 mg/24H Moderate;  
Draize test, rabbit, skin: 500 mg/24H Mild;  
Oral, mouse: LD50 = 287 mg/kg;  
Oral, rat: LD50 = 794 mg/kg;

Carcinogenicity: Zinc acetate anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Zinc acetate dihydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Other: Do not empty into drains.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL

Hazard Class: 9

UN Number: UN3077

Packing Group: III

USA RQ: CAS# 557-34-6: 1000 lb final RQ; 454 kg final RQ

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

- R 22 Harmful if swallowed.
- R 36 Irritating to eyes.
- R 50 Very toxic to aquatic organisms.

Safety Phrases:

- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 29 Do not empty into drains.
- S 39 Wear eye/face protection.
- S 57 Use appropriate containment to avoid environmental contamination.

WGK (Water Danger/Protection)

CAS# 557-34-6: 1

CAS# 5970-45-6: Not available

Canada

CAS# 557-34-6 is listed on Canada's DSL List

CAS# 5970-45-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 557-34-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 5970-45-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 557-34-6 is listed on the TSCA Inventory.

CAS# 5970-45-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

**REVIEWED**

Section 16 - Other Information

MSDS Creation Date: 12/12/1997

Revision #8 Date 7/20/2009

DATE: June 22/2012

*Chuteyord*

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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