

# **MATERIAL SAFETY DATA SHEET**

ZINC ACETATE  
CAROLINA BIOLOGICAL

Revised: 16/07/04  
Replaces: 09/05/00  
Printed: 03/08/10

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## **1. PRODUCT DESCRIPTION**

Product Name: Zinc Acetate, Dihydrate  
Product Code(s): 89-9460  
Size: 500 g  
Chemical Name: Zinc Acetate, Dihydrate  
CAS Number: See section 2  
Formula: (CH<sub>3</sub>COO)<sub>2</sub>ZN 2H<sub>2</sub>O  
Synonyms: Acetic acid, Zinc salt, Dihydrate; zinc diacetate, Dihydrate  
Distributor: Carolina Biological Supply Company  
2700 York Road  
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)  
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

## **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Principle Hazardous Components: Zinc Acetate, Dihydrate(cas#5970-45-6)  
90-100%  
TLV and PEL units: None established

## **3. HAZARD IDENTIFICATION**

Emergency Overview: Causes irritation. May be harmful if swallowed. Avoid contact with eyes, skin, clothing. Do not breathe dust. Keep tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

Potential Health Effects:  
Eyes: May cause irritation.  
Skin: May cause irritation.  
Ingestion: May cause gastrointestinal discomfort.  
Inhalation: May cause irritation to respiratory tract.

## **4. FIRST AID MEASURES**

Emergency and First Aid Procedures:  
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.  
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.  
Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.  
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

## **5. FIREFIGHTING PROCEDURES**

Flash Point(Method Used): N/A  
NFPA Rating: Health: 1  
Fire: 0  
Reactivity: 0

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## Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

## Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None identified

## **6. SPILL OR LEAK PROCEDURES**

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

## **7. SPECIAL PRECAUTIONS**

Precautions to be Taken in Handling or Storing: Keep container tightly closed.

Other Precautions: Suitable for any general chemical storage area.

## **8. SPECIAL PROTECTION INFORMATION**

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation.

NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab apron, eye wash, and safety shower.

## **9. PHYSICAL DATA**

Molecular Weight:	219.51
Melting Point:	237 C (458 F)
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density(Air=1):	6.3
Specific Gravity(H2O=1):	1.74
Percent Volatile by Volume:	0 (21 C)
Evaporation Rate(H2O=1):	N/A
Solubility in Water:	Appreciable (>10%)
Appearance and Odor:	White crystals, faint acetic acid odor

## **10. REACTIVITY DATA**

Stability: Stable

Conditions to Avoid: Heat

Incompatibility(Materials to Avoid): Alkalies, strong oxidizing agents

Hazardous Decomposition Products: Oxides of Zinc, carbon monoxide, carbon

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dioxide

Hazardous Polymerization: Will not occur

## **11. TOXICITY DATA**

Toxicity Data: oral rat LD50: 2460 mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: None identified

Conditions Aggravated by Overexposure: Irritation of upper respiratory tract, tightness and pain in chest, coughing. Severe irritation or burns to the skin and eyes. Nausea, vomiting, gastrointestinal irritation, burns to the mouth and throat if ingest.

Target Organs: Eyes, skin, mucous membranes

Primary Route(s) of Entry: Inhalation, ingestion, skin and eye contact.

## **12. ECOLOGICAL DATA**

EPA Waste Numbers: None

## **13. DISPOSAL INFORMATION**

Waste Disposal Methods: Dispose in accordance with all applicable Federal,

State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

## **14. TRANSPORT INFORMATION**

Hazardous substance, solid, n.o.s. (Zinc Acetate, Dihydrate), NA9188

## **15. REGULATORY INFORMATION**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS	SARA Sec. 313	CERCLA	RCRA
	Sec. 302 TPQ	Chemicals Name Chemical List Category		
261.33				

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Zinc Acetate	Yes	No	Zinc Cpd	1000	No
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## **16. ADDITIONAL INFORMATION**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

CAS Number..Chemical Abstracts Service Number

CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act

DOT.....U.S. Department of Transportation

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IARC.....International Agency of Research on Cancer  
mppcf.....million particles per cubic foot  
N/A.....Not Available  
NTP.....National Toxicology Program  
OSHA.....Occupational Safety and Health Administration  
PEL.....Permissible Exposure Limit  
ppm.....parts per million  
RCRA.....Resource Conservation and Recovery Act  
SARA.....Superfund Amendments and Reauthorization Act  
TLV.....Threshold Limit Value  
TSCA.....Toxic Substances Control Act