

# SAFETY DATA SHEET

Creation Date 24-Jun-2014

Revision Date 28-Apr-2022

Revision Number 5

## 1. Identification

### Product Name

## Zinc acetate dihydrate

Cat No. :

### AC451880000; AC451880010; AC451880025; AC451880100

CAS No Synonyms 5970-45-6 Acetic acid, zinc salt, dihydrate.

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

### 2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Serious Eye Damage/Eye Irritation Category 4 Category 1

### Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Causes serious eye damage



# Precautionary Statements

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

# Rinse mouth

### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Zinc Acetate dihydrate	5970-45-6	<= 100
Zinc acetate	557-34-6	-

4. First-aid measures				
General Advice	If symptoms persist, call a physician.			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms and effects	Causes severe eye damage.			
Notes to Physician	Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

### **Specific Hazards Arising from the Chemical**

Do not allow run-off from fire-fighting to enter drains or water courses.

### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Zinc.

### Protective Equipment and Precautions for Firefighters

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

<u>NFPA</u> Health 3	······································		Physical hazards N/A			
6. Accidental release measures						
Personal Precautions	Use personal protective ec formation.	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust				
Environmental Precautions	Do not flush into surface w	Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.				
Methods for Containment and C Up	ean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.					
	7. Handling	and storage				
Handling		Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.				
8.	Exposure controls	/ personal protection	on			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations			
Personal Protective Equipment						
Eye/face Protection	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 Standa EN166.					
Skin and body protection	Wear appropriate protectiv	e gloves and clothing to prever	it skin exposure.			
Respiratory Protection		HA respirator regulations found in 29 CFR 1910.134 or European Standard NIOSH/MSHA or European Standard EN 149 approved respirator if				

exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

# 9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid White vinegar-like No information available 6.0-7.0 (@ 25 ) 5% in water (25°C) 237 °C / 458.6 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable 1.840 Soluble in water No data available No information available No information available Not applicable C4 H6 O4 Zn . 2 H2 O 219.5

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under recommended storage conditions.		
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Zinc			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
Hazardous Decomposition Product Hazardous Polymerization	s Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Zinc Hazardous polymerization does not occur.		

# 11. Toxicological information

### Acute Toxicity

### Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Zinc Acetate dihydrate	LD50 = 794 mg/kg(Rat)	Not listed	Not listed	
Zinc acetate	LD50 = 663 mg/kg (Rat)	Not listed	Not listed	
Toxicologically Synergistic Products	No information available			
Delayed and immediate effects as well as chronic effects from short and long-term exposure				

Irritation	Irritating to eyes
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Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Zinc Acetate dihydrate	5970-45-6	Not listed	Not listed	Not listed	Not listed	Not listed	
Zinc acetate	557-34-6	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effects		No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		None known None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	nd No information available					
Endocrine Disrupto	r Information	No information available					
Other Adverse Effec	cts	The toxicological properties have not been fully investigated.					

# 12. Ecological information

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshw	ater Algae	Freshwater Fish	Microtox	Water Flea	
Zinc Acetate dihydrate	Not listed		LC50: 0.88 mg/l/96 H	Not listed	Not listed	
			(Pimephales proelas)			
			LC50: 0.55mg/l/96 H			
			(Onchorynchus mykiss)			
Persistence and Degradability May persist based on information available.						
Bioaccumulation/ Accun	nulation No information available.					
Mobility		Will likely be mobile in the environment due to its water solubility.				
13. Disposal considerations						
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classifi hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				local, regional, and		

# 14. Transport information

DOT	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Technical Name	(ZINC ACETATE DIHYDRATE)
Hazard Class	9
Packing Group	III

TDG	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
IATA	
UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class	9
Packing Group	
IMDG/IMO	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Zinc Acetate dihydrate	5970-45-6	-	-	-
Zinc acetate	557-34-6	Х	ACTIVE	-

### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Zinc Acetate dihydrate	5970-45-6	Х	-	-	Х	-		Х	Х	-
Zinc acetate	557-34-6	Х	-	209-170-2	Х	Х	Х	Х	Х	KE-35519

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

### SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Zinc Acetate dihydrate	5970-45-6	<= 100	1.0
Zinc acetate	557-34-6	-	1.0

#### SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	
Zinc Acetate dihydrate	-	-	Х	-	
Zinc acetate	X	1000 lb	Х	-	

#### Clean Air Act

**OSHA** - Occupational Safety and Not applicable Health Administration

### CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Zinc acetate	1000 lb	-

California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zinc Acetate dihydrate	-	Х	Х	-	-
Zinc acetate	Х	Х	Х	-	-

### U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	Ν

# U.S. Department of Homeland This product does not contain any DHS chemicals. Security

### Other International Regulations

Mexico - Grade

No information available

### Authorisation/Restrictions according to EU REACH Not applicable

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
	Zinc Acetate dihydrate	5970-45-6	-	-	-
Γ	Zinc acetate	557-34-6	-	-	-

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Zinc Acetate dihydrate	5970-45-6	Not applicable	Not applicable	Not applicable	Not applicable
Zinc acetate	557-34-6	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Zinc Acetate dihydrate	5970-45-6	Not applicable	Not applicable	Not applicable	Annex I - Y23
Zinc acetate	557-34-6	Not applicable	Not applicable	Not applicable	Annex I - Y23

# 16. Other information

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### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**