

## **SAFETY DATA SHEET**

Creation Date 24-Jun-2014 Revision Date 28-Apr-2022 Revision Number 3

1. Identification

Product Name Zinc acetate dihydrate

Cat No.: A12909

**CAS No** 5970-45-6

**Synonyms** Acetic acid, zinc salt, dihydrate.

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

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

### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800)

343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

### Classification

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

Acute oral toxicity Category 4
Serious Eye Damage/Eye Irritation 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

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.

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, **Skin Contact** 

call a physician.

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if Inhalation

symptoms occur.

Clean mouth with water and drink afterwards plenty of water. Get medical attention if Ingestion

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 No information available Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

UpperNo data availableLowerNo data available

**Sensitivity to Mechanical Impact** No information available **Sensitivity to Static Discharge** 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 (CO2). 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.

NFPA

HealthFlammabilityInstabilityPhysical hazards300N/A

#### 6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust

formation.

Environmental Precautions 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 Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

**Up** 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

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

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 Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection 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.

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 Solid
Appearance White
Odor vinegar-like

Odor Threshold No information available

**pH** 6.0-7.0 (@ 25 ) 5% in water (25°C) **Melting Point/Range** 237 °C / 458.6 °F

Melting Point/Range237 °C / 458.6 °FBoiling Point/RangeNo information availableFlash PointNo information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific Gravity 1.840

Solubility

Partition coefficient; n-octanol/water

Autoignition Temperature

Soluble in water

No data available

No information available

Autoignition Temperature No information available Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula C4 H6 O4 Zn . 2 H2 O

Molecular Weight 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 (CO<sub>2</sub>), Zinc

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions**None under normal processing.

### 11. Toxicological information

**Acute Toxicity** 

#### **Product Information**

**Component 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 No information available

#### **Products**

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes

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				
Zinc acetate	557-34-6	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

**Aspiration hazard**No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects 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	Freshwater 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		
		(Onchorvnchus mykiss)		

**Persistence and Degradability** May persist based on information available.

**Bioaccumulation/ Accumulation** 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 classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport information

DOT

UN-No UN3077

**Proper Shipping Name** Environmentally hazardous substances, solid, n.o.s.

Technical Name (ZINC ACETATE DIHYDRATE)

Revision Date 28-Apr-2022

#### 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 III

IMDG/IMO

UN-No UN3077

Proper Shipping Name Environmentally hazardous substances, solid, n.o.s.

Hazard Class 9
Packing Group III

### 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	X	ACTIVE	-

#### Legend:

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

X - Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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	-	-	Χ	-		Х	Х	-
Zinc acetate	557-34-6	Х	-	209-170-2	Χ	Χ	Χ	Х	Χ	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	-	-	X	-

<sup>&#</sup>x27;-' - Not Listed

### Zinc acetate dihydrate

Zinc acetate	X	1000 lb	X	-

### 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	-	X	X	-	-
Zinc acetate	X	X	X	-	-

### **U.S. Department of Transportation**

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

### 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

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	-	-	-
Zinc acetate	557-34-6	-	-	-

Not applicable

### 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	(2012/18/EC) -	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

Revision Date 28-Apr-2022

### 16. Other information

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**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 5970-45-6/3.

#### **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**