



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Zinc Acetate, Dihydrate

Synonyms:

Acetic acid, zinc salt, dihydrate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Pharmaceutical Component

1.3. Details of the supplier of the safety data sheet

Vertellus Health & Specialty Products LLC
P.O. Box 730
Route 611
Delaware Water Gap, PA 18327 USA

Vertellus Health & Specialty Products LLC
215 North Centennial Street
Zeeland, MI 49464-1309 USA
1-317-247-8141

e-mail Address: sds@vertellus.com

1.4. Emergency telephone number

Vertellus: 1-317-247-8141

CHEMTREC (USA): 1-800-424-9300 (collect calls accepted); (Int'l): 1-703-527-3887 (collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(According to Regulation (EC) No 1272/2008)

Not classified as hazardous under this directive.

(According to Directive 67/548/EEC)

Symbol: Not classified as hazardous under this directive.

Risk Phrases: Not classified as hazardous under this directive.

Safety Phrases: Not classified as hazardous under this directive.

2.2. Label elements

Signal Word:

Not required.

Hazard Precautions:

Not classified as hazardous under this directive.

Prevention Precautionary Statements:

Note: These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye protection and face protection. If swallowed, in eyes, on skin or inhaled call a poison center or doctor/physician if you feel unwell. If inhaled, remove victim to fresh air and keep at rest in a comfortable position for breathing. Take off contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.



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First Aid Precautionary Statements:
Not required.

Storage Precautionary Statements:
Not required.

Disposal Precautionary Statements:
Not required.

2.3. Other hazards

Signs and Symptoms of Potential Overexposure: Prolonged or repeated skin contact may cause skin irritation in some individuals.

Primary Route(s) of Exposure: Skin contact, Eye contact. Inhalation. Ingestion.

Medical Conditions Aggravated by Exposure: None known

SECTION 3: Composition/information on ingredients

3.1. Substances or 3.2. Mixtures

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	CLP Inventory/ Annex VI	EU DSD Classification (67/548/EEC)	EU CLP Classification (1272/2008)
Zinc Acetate Dihydrate	5970-45-6	approx. 100	209-170-2	Not listed.	Not applicable.	Not applicable.

NOTE:

See Section 8 of this SDS for exposure limit data for these ingredients.

See Section 15 of this SDS for trade secret information (where applicable).

See Section 16 of this SDS for the full text of the R-phrases above.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists.
- Eye Contact:** Immediately flush eyes with water for at least 15 minutes, holding eyelids apart. Get medical attention if irritation or other symptoms exist.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
- Ingestion:** If swallowed, contact physician or poison control center immediately. Do not give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

- Acute:** Prolonged or repeated skin contact may cause skin irritation in some individuals.
- Delayed Effects:** None known.

4.3. Indication of any immediate medical attention and special treatment needed

- Thermal Exposure:** Not applicable.
- Note to Physician:** No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media: Water fog, foam, carbon dioxide, or dry chemical

5.2. Special hazards arising from the substance or mixture

Hazardous Products of Combustion: Irritating and/or toxic fumes may be released if this material is burned. May generate Zinc oxide fumes in a fire.

Potential for Dust Explosion: No data available -- handle in a manner that prevents generation of potentially explosive dust.

Special Flammability Hazards: This product is an organic solid. As such, in its finely divided form, this product has the potential to present a dust explosion hazard under certain conditions, although no dust explosion data is currently available. Handle this product in a manner that prevents dust generation and accumulation, and refer to National Fire Protection Association (NFPA) Standard 654 for further information on prevention of dust explosions.

5.3. Advice for firefighters

Basic Fire Fighting Guidance: Evacuate area and fight fire from a safe distance. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Flammability Classification (OSHA): Non-flammable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuation Procedures: Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Special Instructions: Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded.

6.2. Environmental precautions

Prevent releases to soils, drains, sewers and waterways.

6.3. Methods and material for containment and cleaning up

Containment Techniques and Clean-up Procedures: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent skin/eye contact. Carefully scoop up and place into appropriate disposal container.

Special Reporting Requirements: Notify appropriate authorities if required by regulation. See Section 15 for additional information.

6.4. Reference to other sections

Refer to section 8 for information on selecting personal protective equipment. Refer to section 13 for information on spilled product, absorbent and clean up material disposal instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for Unique Hazards: Not applicable.

Practices to Minimize Risk: Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material.



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Special Handling Equipment: Not applicable.

7.2. Conditions for safe storage, including any incompatibilities

Storage Precautions & Recommendations: Keep container closed when not in use.

Dangerous Incompatibility Reactions: Strong oxidizing agents

Incompatibilities with Materials of Construction: none known

7.3. Specific end use(s)

If a chemical safety assessment has been completed an exposure scenario is attached as an annex to this Safety Data Sheet. Refer to this annex for the specific exposure scenario control parameters for uses identified in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OSHA PEL: 15 mg/m³ total dust;
5 mg/m³ respirable fraction ACGIH TLV: Not established

8.2. Exposure controls

Also see the annex to this SDS (if applicable) for specific exposure scenario controls.

Personal Protective Equipment: A NIOSH approved chemical cartridge respirator or supplied-air breathing equipment should be used as conditions necessitate. Chemical goggles; face shields if necessary. PPE: Impervious clothing, gloves, and boots.

Respirator Caution: Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.

Other Engineering Controls: Not applicable.

Thermal Hazards: Not applicable.

Additive or Synergistic effects: None known.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, State & Odor (ambient temperature): White granules or powder with slight vinegar odor.

Molecular Formula:	Zn(C ₄ H ₆ O ₄) • 2 H ₂ O	Molecular Weight:	219.50
Vapor Pressure:	No data available.	Evaporation Rate:	Not applicable
Specific Gravity or Density:	1.735	Vapor Density (air = 1):	No data available.
Boiling Point:	No data available.	Freezing / Melting Point:	No data available.
Solubility in Water:	1 g/2.3 mL	Octanol / Water Coefficient:	No data available.
pH:	No data available.	Odor Threshold:	No data available.
Viscosity:	No data available.	Autoignition Temperature:	No data available.
Flash Point and Method:	No data available.	Flammable Limits:	No data available.

9.2. Other information

Not applicable



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SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	Not classified as dangerously reactive.
<u>10.2. Chemical stability</u>	Stable
<u>10.3. Possibility of hazardous reactions</u>	Will not occur.
<u>10.4. Conditions to avoid</u>	Avoid generation of dust.
<u>10.5. Incompatible materials</u>	Strong oxidizing agents
<u>10.6. Hazardous decomposition products</u>	Acetic acid and Zinc oxide fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Oral LD ₅₀ :	Oral LD ₅₀ (rat) = 794 mg/kg	Zinc Acetate
Acute Dermal LD ₅₀ :	No data available.	
Acute Inhalation LC ₅₀ :	No data available.	
Other Toxicity Data:	No data available.	
Skin Irritation:	Slightly irritating to skin.	
Skin Sensitization:	No data available.	
Eye Irritation:	Moderately irritating to eyes.	
Target Organs:	No data available.	
Carcinogenicity:	No data available.	
Teratogenicity:	No data available.	
Reproduction:	No data available.	
Neurotoxicity:	No data available.	
Mutagenicity:	No data available.	
Additional Toxicity Information:	Skin irritation, rabbit: 500 mg/24 hr - mild Eye irritation, rabbit: 20 mg/24 hr - moderate	

SECTION 12: Ecological information

<u>12.1. Toxicity</u>	No data available.
<u>12.2. Persistence and degradability</u>	No data available
<u>12.3. Bioaccumulative potential</u>	No data available
<u>12.4. Mobility in soil</u>	No data available
<u>12.5. Results of PBT and vPvB assessment</u>	No data available.
<u>12.6. Other adverse effects</u>	No data available.

German Water Hazard Classification: No data available.

Component Name:
No data available.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

US EPA Waste Number: Non-Hazardous

Waste Classification: (per US regulations) Non-Hazardous
NOTE: Generator is responsible for proper waste characterization. State (USA) hazardous waste regulations may differ substantially from federal (USA) regulations.

Waste Disposal: Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable international, national, regional, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: Transport information

14.1. UN number Not applicable
14.2. UN proper shipping name Chemicals, n.o.s. (Zinc Acetate)
14.3. Transport hazard class(es) Not applicable
14.4. Packing group Not applicable
14.5. Environmental hazards Not applicable
14.6. Special precautions for user No data available.
NA Emergency Guidebook Numbers: Not applicable IMDG EMS: Not applicable
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

OSHA Hazards: Health: Possible Irritant. Physical: Not applicable.

WHMIS Classification: This product is not classified as a controlled product under Canadian Controlled Products Regulations.

Chemical Inventory Lists: Status:
TSCA: Listed (as anhydrous form, CAS# 557-34-6)
EINECS: 209-170-2 (as anhydrous form, CAS# 557-34-6)
Canada(DSL/NDSL): DSL
Japan: 2-693X
Korea: KE-35519 (as anhydrous form, CAS# 557-34-6)
Australia: Listed
New Zealand: Listed
China: Listed
Philippines: Listed
Switzerland: G-3072



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New Zealand GHS Classification:	Acute toxicity - Oral - Category 4: H302 Harmful if swallowed. (Approval: HSR004897); Terrestrial Vertebrate Ecotoxicity - Category 3: H433 Harmful to terrestrial vertebrates. (Approval: HSR004897)
Japan GHS Classification:	Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Skin corrosion/irritation - Category 3: H316 Causes mild skin irritation.
Korea (MOL) GHS Classification:	Not classified by this country.
Australia GHS Classification:	Not classified by this country.
Taiwan GHS Classification:	Not classified by this country.
Indonesia GHS Classification:	Not classified by this country.

SARA 313: "Zinc Compounds" are reportable under SARA 313.
Reportable Quantities: 1000 lbs.

Component Name:

- State Regulations:
- This product contains chemicals listed on the Massachusetts Substance List for Right-to-Know Law.
 - This product contains chemicals listed on the New Jersey Department of Health Hazard Right-to-Know Program Hazardous Substance List.
 - This product contains chemicals listed on the Pennsylvania Department of Labor and Industry Hazardous Substance List.
 - This product contains chemicals listed on the New York State List of Hazardous Substances.

HMIS: H: 2 F: 1 R: 0 NFPA: H: 2 F: 1 R: 0 OTHER:

15.2. Chemical safety assessment

Not applicable.

SECTION 16: Other information

Full text of R phrases in Section 3: Not applicable

Legend of Abbreviations:

ACGIH = American Conference on Governmental Industrial Hygienists.
CAS = Chemical Abstracts Service.
CFR = Code of Federal Regulations.
DSL/NDSL = Domestic Substances List/Non-Domestic Substances List.
EC = European Community.
EINECS = European Inventory of Existing Commercial Chemical Substances.
ELINCS = European List of Notified Chemical Substances.
EU = European Union.
GHS = Globally Harmonized System.
LC = Lethal Concentration.
LD = Lethal Dose.
NFPA = National Fire Protection Association.
NIOSH = National Institute of Occupational Safety and Health.
NTP = National Toxicology Program.



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OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Limit.
RQ = Reportable Quantity.
SARA = Superfund Amendments and Reauthorization Act of 1986.
TLV = Threshold Limit Value.
WHMIS = Workplace Hazardous Materials Information System.

Important Note: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. The information contained herein may change without prior notice. THIS SAFETY DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS.

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