



Chemistry for Safer, Sustainable Life

SAFETY DATA SHEET

Section 1: Identification

Product Name: Zinc (II) acetate dihydrate

Product ID: 100AC124

Chemical Name/Synonyms: Acetic acid zinc salt dihydrate

CAS: 5970-45-6

Molecular Formula: C₄H₁₀ZnO₆

Molecular weight: 219.51 g/mol

Potential Uses: catalyst, transparent metal oxide precursor, reagent, biocide, zinc fertilizer, etc.

Company: BioFuran Materials LLC

920 William Pitt Way, Pittsburgh, PA 15238

In emergency call 911 or for information about this SDS, use this contact phone#: 412-376-7101

Section 2: GHS Hazard(s) Identification

Hazard Classification: Acute aquatic toxicity (Category 1), H400
Eye irritation (Category 2A), H319
Acute oral toxicity (Category 4), H302
Chronic aquatic toxicity (Category 1), H410

Signal Word(s): Warning

Hazard Statements: H400 – Hazardous to the aquatic environment

Pictograms:



Precautionary Statements:

P273 – Avoid release to the environment
P280 – Wear protective gloves / protective clothing, eye protection / face protection
P264 – Wash hands thoroughly after handling
P302+P352 – If on skin, wash with plenty of soap and water
P305+P351+P338 – If in eyes, rinse thoroughly with water for several minutes. Remove contact lenses if present. Continue rinsing for several minutes.
P337+P313 – If eye irritation persists, get medical advice/attention
P321 – See first aid instructions on this SDS
P362+P364 – Take off contaminated clothing and wash them before reuse.

Description of other hazards: none available

Section 3: Composition/ Information on Ingredients

| Chemical Name | Synonym | CAS# | Conc. |
|-----------------------------|---------------------------------|-----------|-------|
| Zinc (II) acetate dihydrate | Formic acid zinc salt dihydrate | 5970-45-6 | 100% |

Section 4: First-Aid Measures

After skin contact: Wash off with soap and plenty of water. Consult a physician.

After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

Section 6: Accidental Release Measures

Personal precautions: Wear protective equipment as described in Section 8.

Measures for environmental protection: Do not dispose product in municipal sewers or drains. Notify authorities if product enters sewers or public waters.

Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Sweep up and shovel any spillages. Keep all wastes and residues in suitable, closed containers for proper disposal.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid dust formation and do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.

Storage: Keep container tightly closed in a dry ventilated space.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Engineering controls: Emergency eye wash fountains and safety showers should be available in the work areas.

Respiratory controls: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

Protection of hands: Neoprene or nitrile rubber gloves.

Eye protection: Chemical goggles. Contact lenses should not be worn.

Section 9: Physical and Chemical Properties

Form: White crystalline powder
Odor: Mild vinegar odor
Odor threshold: No data available
pH: 6-8 in aqueous solution
Melting point/melting range: 235-239°C
Boiling point/boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Auto ignition temperature: No data available
Danger of explosion: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.82-1.86g/mL
Solubility in/Miscibility with water: 0.31g/ml of water

Section 10: Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under ambient conditions
Conditions to avoid: No data available
Incompatible materials: strong oxidizing agents, sulfuric acid
Decomposition products: Zinc oxide, oxides of carbon

Section 11: Toxicological Information

Acute toxicity: No data available
Potential routes of exposure/potential health effects
Skin: Causes skin irritation
Eye: Causes eye irritation
Inhalation: May cause irritation
Ingestion: Harmful if swallowed
Carcinogenic effects: No data available
Mutagenic effects: No data available
Reproductive toxicity: No data available
Sensitization: No data available
Target organs: No data available

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Mild water pollutant. Highly toxic to fish and algae
Mobility: No data available
Biodegradation: No data available
Bioaccumulation: No data available

Section 13: Disposal Considerations

This material or its residues should not be disposed in drains or in regular trash cans. Contact a licensed waste disposal professional to dispose this material or its residues.

Section 14: Transport Information (non-mandatory)

DOT regulations: UN number: 3077, Class 9, Packing group: III, Proper shipping name: Environmentally hazardous substances

- **Land transport ADR/RID (cross-border):** UN number: 3077, Class 9, Packing group: III, Proper shipping name: Environmentally hazardous substances, , solid, n.o.s zinc diacetate
- **Maritime transport IMDG:** UN number: 3077, Class 9, Packing group: III, Proper shipping name: Environmentally hazardous substances, , solid, n.o.s zinc diacetate
- **Air transport ICAO-TI and IATA-DGR:** UN number: 3077, Class 9, Packing group: III, Proper shipping name: Environmentally hazardous substances, solid, n.o.s zinc diacetate

Section 15: Regulatory Information

OSHA Hazards: Harmful by ingestion

US Federal Regulations

SARA Section 302: This material is not subject to reporting requirements of SARA Title III, Section 302

SARA Section 313: This material is subject to reporting levels established by SARA Title III, Section 313

SARA Section 311/312: Acute health hazard

TSCA (Toxic Substances Control Act): Zinc (II) acetate dihydrate is listed on the United States TSCA

Section 16: Other Information

SDS date of preparation/update: 08/27/2020 Version 001