

## ZINC ACETATE (DIHYDRATE), EXTRA PURE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** ZINC ACETATE (Dihydrate), EXTRA PURE

**Product Code:** 493

**CAS#:** 5970-45-6

**Synonym:** Not available

**Chemical Name:** Not available

**Chemical Formula:**  $C_4H_6O_4Zn \cdot 2H_2O$

**Molecular weight:** 209.51

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

**Composition:** Not available

**Name:** : ZINC ACETATE (Dihydrate), EXTRA PURE

**Chemical Formula:**  $C_4H_6O_4Zn \cdot 2H_2O$

**Molecular weight:** 209.51

### SECTION 3: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Carcinogenicity, (Category 2) H351: Suspected of causing cancer.

Reproductive toxicity, (Category 2) H361fd: Suspected of damaging fertility.

Suspected of damaging the unborn child.

Long-term (chronic) aquatic hazard, (Category 2) H411: Toxic to aquatic life with long lasting effects.

**Potential Chronic Health Effects:** Not available.

**Carcinogenic Effects:** Not available.

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

**Developmental Toxicity:** Not available.

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not Available.

**Ingestion:** Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Serious Ingestion:** Not available.

### SECTION 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder





#### Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

Sulfur oxides

Hydrogen chloride gas

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

**Environmental precautions :** Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling :

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

#### Storage conditions:

Tightly closed. Dry.

#### Storage class:

Storage class (TRGS 510): 11: Combustible Solids

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

#### Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	White crystalline powder.
Odor	:	Not available
Color	:	White
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available





Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is chemically stable under standard ambient conditions (room temperature).

**Instability Temperature:** Not available

**Conditions of Instability:** Not available

**Incompatibility with various substances:** Strong oxidizing agents

**Special Remarks on Corrosivity:** Non-corrosive.

**Special Remarks on Reactivity:** Not available

**Possibility of hazardous reactions:** Risk of ignition or formation of inflammable gases or vapours with: Fluorine  
Exothermic reaction with: Aqueous alkaline solution : Strong oxidizing agents : silver in powder form hydrogen peroxide.

Risk of explosion with: silver salt

**Hazardous decomposition products:** In case of fire.

### SECTION 11: TOXICOLOGICAL INFORMATION.

#### Acute Toxicity:

LD50 Oral - Rat - female - 2.000 - 2.500 mg/kg (OECD Test Guideline 423) LC50 Inhalation - Rat - male and female - 4 h - > 195 mg/l - dust/mist.

(OECD Test Guideline 403) LD50 Dermal - Rabbit - male and female - > 2.800 mg/kg (OECD Test Guideline 402)

**Routes of Entry:** No data available

**Toxicity to Animals:** No data available

**Chronic Effects on Humans:** Not available

**Other Toxic Effects on Humans:** May cause respiratory irritation

**Special Remarks on Toxicity to Animals:** Not available

**Special Remarks on other Toxic Effects on Humans:** Not available

**Potential Health :** Liver - Irregularities - Based on Human Evidence

### SECTION 12: ECOLOGICAL INFORMATION

#### Ecotoxicity:

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - > 600 mg/l - 96 h

Remarks: (ECHA) .

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 5,6 - 18,0 mg/l - 48 h Remarks: (ECOTOX Database).

Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 6,8 mg/l - 96 h Remarks: (External MSDS)

Toxicity to bacteria EC10 - Pseudomonas putida - 1.265 mg/l - 18 h Remarks: (IUCLID)

Biochemical Oxygen Demand (BOD) 13 mg/g Remarks: (IUCLID)

**BOD and COD:** Biochemical Oxygen Demand (BOD) 13 mg/g Remarks: (IUCLID)

**Products of Biodegradation:** Not available.

**Toxicity of the Products of Biodegradation:** Not available

**Special Remarks on the Products of Biodegradation:** Not Available





### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### SECTION 14: TRANSPORT INFORMATION

**UN number:**

ADR/RID: 3077

IMDG: 9

IATA: 9

**UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thiourea)

IMDG: 9

IATA: III

**Transport hazard class (es): 9**

ADR/RID: Yes

IMDG: Yes

IATA: yes

**Packaging group: III**

ADR/RID:

IMDG: III

IATA: III

**Environmental hazards:**

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: Yes

### SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Authorisations and/or restrictions on use.**

**National legislation Seveso III:** Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

### SECTION 16: OTHER INFORMATION

**References: Full text of H AND R-Statements:**

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility.

Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

**Other Special Considerations:** Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.