

## ZINC ACETATE (Dihydrate), AR GRADE

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Zinc Acetate (Dihydrate), AR GRADE

**Product Code:** 494

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

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

**Molecular Formula:** 219.51 g/mol

**Formula Weight:** NA

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances Synonyms:** NA

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

**Molecular Weight:** 219.51 g/mol

**CAS-No.:** 5970-45-6

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

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

**Serious eye damage,** (Category 1) H318: Causes serious eye damage.

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

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Ecological information:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Toxicological information:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact:** rinse out with plenty of water. Remove contact lenses.

**Skin Contact:** Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**Serious Skin Contact:** Not available

**Serious Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

**If swallowed:** immediately make victim drink water (two glasses at most). Rinse mouth with water. Consult a physician.

**Serious Ingestion:** Not available

**Most important symptoms and effects, both acute and delay** No data available

**Indication of any immediate medical attention and special treatment needed** no data available

### SECTION 5: FIRE AND EXPLOSION DATA

**Extinguishing media**

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



**Special hazards arising from the substance or mixture** no data available

**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**Specific end use(s)** A part from the uses no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure controls**

**Personal protective equipment**

**Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

**Eye/face protection** Safety glasses with side-shields conforming to EN166 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance Form</b>	: White solid cylindrical flakes.
<b>Odour</b>	: Not available
<b>Taste</b>	: Not available
<b>Molecular Weight</b>	: Not available
<b>Colour</b>	: Not available
<b>pH</b>	: Not available
<b>Boiling Point</b>	: Not available
<b>Melting Point</b>	: Not available
<b>Critical Temperature</b>	: Not available
<b>Specific Density</b>	: Not Available
<b>Vapor Pressure</b>	: Not Available
<b>Vapor Density</b>	: Not available
<b>Volatility</b>	: Not Available
<b>Odor Threshold</b>	: Not Available
<b>Water/Oil Dist. Coeff.</b>	: Not Available



<b>Ionicity (in Water)</b>	: Not Available
<b>Dispersion Properties</b>	: Not Available
<b>Solubility</b>	: Not available

## SECTION 10: STABILITY AND REACTIVITY DATA

**Reactivity** No data available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No data available

**Conditions to avoid** No data available

**Incompatible materials** Strong oxidizing agents

**Hazardous decomposition products** Other decomposition products - No data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male - 663,8 mg/kg

**Inhalation:** No data available

**Dermal:** No data available

**Acute toxicity estimate Oral** - 977 mg/kg (Calculation method)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages: damage of respiratory tract.

**LD50 Dermal** - Rat - male and female - > 2.000 mg/kg

**Inhalation:** No data available

**Skin corrosion/irritation** No data available.

#### Serious eye damage/eye irritation

Eyes - Bovine cornea

Result: Causes serious eye damage. - 4 h

Eyes - Chicken eye

Result: Irreversible effects on the eye - 10 s

**Respiratory or skin sensitization** No data available.

#### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**Reproductive toxicity** No data available.

**Specific target organ toxicity** - No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity to fish static test

LC50 - Oncorhynchus mykiss (rainbow trout) - 0,169 mg/l - 96 h

### Toxicity to daphnia and other aquatic invertebrate's static test

EC50 - Daphnia magna (Water flea) - 0,33 mg/l - 48 h

### Toxicity to algae static test

NOEC - Pseudokirchneriella subcapitata (green algae) - 0,0049 mg/l - 72 h

### Toxicity to bacteria static test

IC50 - activated sludge - 0,35 mg/l - 4 h (ISO 9509)

**Toxicity to fish (Chronic toxicity) flow-through test NOEC** - Oncorhynchus mykiss (rainbow trout) - 0,039 mg/l - 30 d

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) semi-static test NOEC** - Daphnia magna (Water flea) - 0,039 mg/l - 21 d

**Persistence and degradability** No data available

**Bio-accumulative potential** No data available



**Mobility in soil** No data available

**Results of PBT and vPvB assessment** PBT/vPvB assessment not data available

**Other adverse effects** No data 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:** 3077

**IATA:** 3077

**UN proper shipping name**

**ADR/RID:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc di(acetate))

**IMDG:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc di(acetate))

**IATA:** Environmentally hazardous substance, solid, n.o.s. (Zinc di(acetate))

**Transport hazard class(es):**

**ADR/RID:** 9

**IMDG:** 9

**IATA:** 9

**Packaging group:**

**ADR/RID:** III

**IMDG:** III

**IATA:** III

**Environmental hazards:**

**ADR/RID:** yes

**IMDG Marine pollutant:** yes

**IATA:** yes

**Special precautions for user**

**Tunnel restriction code:** (-)

### SECTION 15: OTHER REGULATORY INFORMATION

**Regulatory information** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**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.

**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.

**H318** Causes serious eye damage.

**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.

