

# Material Safety Data Sheet

| SECTION 1. Product Information and Company Identification |   |               |           |
|---|---|---------------|-----------|
| <b>Product name</b>                                       | <b>Zinc Acetate Dihydrate</b>                                       |               |           |
| <b>Mol. Formula</b>                                       | <b>(CH<sub>3</sub>.COO)<sub>2</sub>Zn.2H<sub>2</sub>O</b>           | <b>Cas no</b> | 5970-45-6 |
| <b>Mol. Wt.</b>   | 219.50 g/mol  |               |           |
| <b>Manufacture name</b>                                   | Pioneers for laboratory chemicals                                   |               |           |
| <b>Brand name</b>   | PIOCHEM   |               |           |
| <b>Address</b>  | Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt. |               |           |
| <b>Website</b>  | www.piochem.com   |               |           |
| <b>E-mail</b>   | info@piochem.com  |               |           |
| <b>Phone number</b>                                       | +201225728304, +201023932115  |               |           |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4), H302

Eye irritation (Category 2), H319

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H302

H319

H410

Harmful if swallowed.

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

|                                |  |
|--------------------------------|--|
| Precautionary statement(s)     |  |
| P273                           | Avoid release to the environment.  |
| P305 + P351 + P338             | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501                           | Dispose of contents/ container to an approved waste disposal plant.  |
| Supplemental Hazard Statements | none   |

## 2.2 Other hazards - none

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

|                  |   |
|------------------|---|
| Formula          | : C <sub>4</sub> H <sub>6</sub> O <sub>4</sub> Zn · 2H <sub>2</sub> O |
| Molecular weight | : 219.50 g/mol  |
| CAS-No.          | : 5970-45-6   |
| EC-No.           | : 209-170-2   |

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component               |           | Classification               | Concentration |
|-------------------------|-----------|------------------------------|---------------|
| <b>Zinc di(acetate)</b> |           |                              |               |
| CAS-No.                 | 5970-45-6 | Acute Tox. 4; Eye Irrit. 2;  | <= 100 %      |
| EC-No.                  | 209-170-2 | Aquatic Acute 1; Aquatic     |               |
|                         |           | Chronic 1; H302, H319, H400, |               |
|                         |           | H410                         |               |
|                         |           | M-Factor - Aquatic Acute: 10 |               |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General advice

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

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

##### In case of eye contact

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

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Zinc/zinc oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

**6.2 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.

**6.3 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 for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage**

**7.1 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.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Combustible Solids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

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

**Personal protective equipment**

**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).

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

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

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|   |                               |
|---|-------------------------------|
| a) Appearance                                   | Form: powder<br>Colour: white |
| b) Odour  | No data available             |
| c) Odour Threshold                              | No data available             |
| d) pH   | 6.0 - 8.0 at 50 g/l at 25 °C  |
| e) Melting point/freezing point                 | Melting point/range: 237 °C   |
| f) Initial boiling point and boiling range      | No data available             |
| g) Flash point                                  | No data available             |
| h) Evaporation rate                             | No data available             |
| i) Flammability (solid, gas)                    | No data available             |
| j) Upper/lower flammability or explosive limits | No data available             |
| k) Vapour pressure                              | No data available             |
| l) Vapour density                               | No data available             |
| m) Relative density                             | 1.840 g/cm <sup>3</sup>       |
| n) Water solubility                             | No data available             |
| o) Partition coefficient: n-octanol/water       | No data available             |
| p) Auto-ignition temperature                    | No data available             |
| q) Decomposition temperature                    | No data available             |
| r) Viscosity                                    | No data available             |
| s) Explosive properties                         | No data available             |
| t) Oxidizing properties                         | No data available             |

**9.2 Other safety information**

No data available

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Oxidizing agents

**10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Zinc/zinc oxides

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

LD50 Oral - Rat - 794 mg/kg(Zinc di(acetate))

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Miosis (pupillary constriction). Vascular:BP elevation not characterized in autonomic section. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

**Skin corrosion/irritation**

Skin - Rabbit(Zinc di(acetate))

Result: Mild skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - Rabbit(Zinc di(acetate))

Result: Moderate eye irritation - 24 h

**Respiratory or skin sensitisation**

No data available(Zinc di(acetate))

**Germ cell mutagenicity**

Human(Zinc di(acetate))

lymphocyte

Cytogenetic analysis

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available(Zinc di(acetate))

**Specific target organ toxicity - single exposure**

No data available(Zinc di(acetate))

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available(Zinc di(acetate))

**11.2 Additional Information**

RTECS: ZG8750000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Zinc di(acetate))

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.55 mg/l - 96.0 h(Zinc di(acetate))

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available(Zinc di(acetate))

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

### 14.2 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))

### 14.3 Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

### 14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: no

IATA: yes

### 14.6 Special precautions for user

#### Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## SECTION 15: Regulatory information

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

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

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

### **Full text of H-Statements referred to under sections 2 and 3.**

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                 |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |