

## ZINC CHLORIDE (ANH)

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** ZINC CHLORIDE (ANH)

**Product Code:** 4315

**CAS#:** 7646-85-7

**Chemical Formula:**  $\text{ZnCl}_2$

**Molecular Formula:** 136.30 g/mol

**Formula Weight:** NA

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**Substances Synonyms:** Dichlorozinc, Zinc chloride

**Formula:**  $\text{ZnCl}_2$

**Molecular Weight:** 136.30 g/mol

**CAS-No.:** 7646-85-7

### SECTION 3: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

|                                                   |                                                             |
|---------------------------------------------------|-------------------------------------------------------------|
| Acute toxicity,                                   | H302: Harmful if swallowed.                                 |
| Skin corrosion,                                   | H314: Causes severe skin burns and eye damage.              |
| Serious eye damage,                               | H318: Causes serious eye damage.                            |
| Specific target organ toxicity - single exposure, | H335: May cause respiratory irritation.                     |
| Short-term (acute) aquatic hazard,                | H400: Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic hazard,               | H410: Very toxic to aquatic life with long lasting effects. |

#### Other hazards:

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (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:** Flush eyes with water as a precaution.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Serious Skin Contact:** Not available

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

**If swallowed:** Never give anything by mouth to an unconscious person. 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 vapor's, 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

|                                    |                            |
|------------------------------------|----------------------------|
| Physical state and appearance Form | : White crystalline Powder |
| Odour                              | : Not available            |
| Taste                              | : Not available            |
| Molecular Weight                   | : Not available            |
| Colour                             | : Not available            |
| pH                                 | : Not available            |
| Boiling Point                      | : Not available            |
| Melting Point                      | : Not available            |
| Critical Temperature               | : Not available            |
| Specific Density                   | : 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

**Reactivity** in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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

**Possibility of hazardous reactions** Violent reactions possible with: sodium Strong oxidizing agents

**Conditions to avoid** Moisture. no information available

**Incompatible materials** various metal

**Hazardous decomposition products** no data available

**Other decomposition products** no data available

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male - 1.100 mg/kg

Acute toxicity estimate Oral - 1.100 mg/kg

LC50 Inhalation - Rat - female - 10 min - <= 1.975 mg/m3 - aerosol

Remarks: (ECHA)

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

#### Skin corrosion/irritation:

Skin - Mouse

Remarks: (ECHA)

#### Serious eye damage/eye irritation:

Remarks: Risk of blindness

#### Respiratory or skin sensitization:

Maximization Test - Guinea pig

Result: negative

#### Germ cell mutagenicity:

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: without metabolic activation

Result: negative

Remarks: (ECHA)

Test Type: Micronucleus test

Species: Mouse

Cell type: Red blood cells (erythrocytes)

Application Route: Intraperitoneal

Result: negative

Remarks: (in analogy to similar products) (ECHA)

The value is given in analogy to the following substances: Zinc sulphate

**Carcinogenicity:** no data available

**Reproductive toxicity:** no data available

**Specific target organ toxicity:** no data available

**Specific target organ toxicity - repeated exposure** no data available



**Aspiration hazard** no data available

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** no data available

**Persistence and degradability** The methods for determining biodegradability are not applicable to inorganic substances.

**Bio-accumulative potential** no data available

**Mobility** in soil no data available

**Results of PBT and vPvB assessment** PBT/vPvB assessment This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

**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: 2331

IMDG: 2331

IATA: 2331

**UN proper shipping name**

ADR/RID: ZINC CHLORIDE, ANHYDROUS

IMDG: ZINC CHLORIDE, ANHYDROUS

IATA: Zinc chloride, anhydrous

**Transport hazard class(es):**

ADR/RID: 8

IMDG: 8

IATA: 8

**Packaging group:**

ADR/RID: III

IMDG: III

IATA: III

**Environmental hazards:**

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

**Special precautions for user**

**Tunnel restriction code: (E)**

**Further information:** No data available

## 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.



H314 Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H335 May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Other Special Considerations:** Not available.

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