



MATERIAL SAFETY DATA SHEET



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Zinc acetate dihydrate

Section 1: Product Identification

Product Name: Zinc acetate dihydrate

Product Code: 494

CAS#: 5970-45-6

Chemical Formula: $C_4H_6O_4Zn \cdot 2H_2O$

Formula Weight: 219,51 g/mol

Section 2: Hazards Identification

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn, N Harmful, Dangerous for the R22, R36, R50/53
environment

Section 3: Composition/Information on Ingredients

Formula : $C_4H_6O_4Zn \cdot 2H_2O$

Molecular Weight : 219,51 g/mol

CAS-No. : 5970-45-6

Section 4: First Aid Measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

Section 5: Fire and Explosion Data

Suitable extinguishing media

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

Special hazards arising from the substance or mixture



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Carbon oxides, Zinc/zinc oxides

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary

Section 6: Accidental Release Measures

Personal precautions and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition.

Storage:

Store in cool, dry place in closed containers

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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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: Form powder, colour-White

Odor: Not available.

Taste: Not available.

pH: 6.0 – 8.0 at 50 g/l at 25 °C

Boiling Point: Not available.

Melting Point: Melting point/range: 237 °C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.



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Dispersion Properties: Not available

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: Stable under recommended storage conditions.

Instability Temperature: Not available.

Conditions of Instability: Excess heat.

Incompatibility with various substances: oxidizing agents

Special Remarks on Reactivity: Not available.

Section 11: Toxicological Information.

Acute toxicity:

LD50 Oral - rat - 794 mg/kg

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

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation:

Eyes - rabbit

Result: Moderate eye irritation - 24 h

Respiratory or skin sensitization: Not available.

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: Not available.

Specific target organ toxicity - single exposure: Not available.

Specific target organ toxicity - repeated exposure: Not available.

Aspiration hazard: Not available.

Section 12: Ecological Information

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) – 0.55 mg/l – 96.0 h

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Section 13: Disposal Considerations

Waste Disposal:

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

Section 14: Transport Information

UN number:

ADR/RID: 3077

IMDG: 3077

IATA: 3077



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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

Section 15: Regulatory Information

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

Not available.

Chemical Safety Assessment: Not available.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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