

1. Product and Company Identification

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Product Name Zinc Acetate Dihydrate

Part Number RXSOL-19-6605-836

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Composition

| Name | CAS # | % by Weight |
|--------------|-----------|-------------|
| Zinc acetate | 5970-45-6 | 100 |

Toxicological Data on Ingredients

Zinc acetate: ORAL (LD50): Acute: 794 mg/kg [Rat]. 287 mg/kg [Mouse].

3. Hazards Identification

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Potential Acute Health Effects

Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation

Potential Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys. Repeated or prolonged exposure to the

substance can produce target organs damage.

4. First Aid Measures

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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. Cold water may be used. Get medical attention.

Skin Contact

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion

Not available.

5. Fire-fighting Measures

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Flammability of the Product

May be combustible at high temperature.

Auto-Ignition Temperature

Not available.

Flash Points

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.

In a fire or if heated, a pressure increase will occur and the container may burst, with the

risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along

the ground. Vapors may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

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distance to a source of ignition and flash back.

Not available.

Flammable Limits

Not available.

Products of Combustion

These products are carbon oxides (CO, CO₂). Some metallic oxides.

spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Slightly flammable to flammable in presence of heat.

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

When heated to decomposition it emits acrid smoke and irritating fumes of zinc oxide.

Not available.

Fire Hazards in Presence of Various Substances

Explosion Hazards in Presence of Various Substances

Fire Fighting Media and Instructions

Special Remarks on Fire Hazards

Special Remarks on Explosion Hazards

6. Accidental Release Measures

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Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

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Precautions

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls and personal protection

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Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

Not available.

9. Physical and chemical properties

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Physical state and appearance

Solid. (slightly efflorescent)

Odor

vinegar-like (acetous) (Slight.)

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|-----------------------------|-------------------|
| Taste | Astringent. |
| Molecular Weight | 219.5 g/mole |
| Color | White. |
| pH (1% soln/water) | Not available. |
| Boiling Point | Not available. |
| Melting Point | 237°C (458.6°F) |
| Critical Temperature | Not available. |
| Specific Gravity | 1.735 (Water = 1) |
| Vapor Pressure | Not applicable. |

materials. Extremely flammable in the presence of the following materials or conditions: oxidizing

materials.

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| Vapor density | Not available. |
| Volatility | Not available. |
| Odor Threshold | Not available. |
| Water/Oil Dist. Coeff | Not available. |
| Ionicity (in Water) | Not available. |
| Dispersion Properties | See solubility in water. |
| Solubility | Easily soluble in hot water. Soluble in cold water. Solubility in water: 1 gram dissolves in 2.3 ml water, 1.6 ml boiling water. Solubility in alcohol: 1 gram dissolves in 30 ml alcohol, 1 ml boiling alcohol. |

10. Stability and reactivity

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| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Excess heat, incompatible materials |
| Incompatibility with various substances | Reactive with oxidizing agents. |
| Corrosivity | Non-corrosive in presence of glass. |
| Special Remarks on Reactivity | Loses 2H ₂ O at 100 deg. C. |
| Special Remarks on Corrosivity | Not available |
| Polymerization | Will not occur. |

11. Toxicological information

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| Routes of Entry | Inhalation. Ingestion |
| Toxicity to Animals | Acute oral toxicity (LD50): 287 mg/kg [Mouse]. |
| Chronic Effects on Humans | May cause damage to the following organs: kidneys. |
| Other Toxic Effects on Humans | Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation |
| Special Remarks on Toxicity to Animals | Not available |
| Special Remarks on Chronic Effects on Humans | May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal test data |
| Special Remarks on other Toxic Effects on Humans | Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Causes eye irritation. Ingestion: May be harmful if swallowed. May cause irritation of the digestive tract. Symptoms may include stomach cramps, stricture of the esophagus, nausea, vomiting. Inhalation: May cause respiratory tract (nose, throat) irritation causing coughing, and wheezing. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may |

affect the blood, urinary system (kidneys).

12. Ecological information

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| Ecotoxicity | No data available |
| BOD5 and COD | Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h (OECD Test Guideline 203) |
| Products of Biodegradation | Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid |
| Toxicity of the Products of Biodegradation | Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520 mg/l - 96 h |
| Special Remarks on the Products of Biodegradation | EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000 mg/l Remarks: (Lit.) (maximum permissible toxic concentration) |

13. Disposal considerations

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| Waste Disposal | Waste must be disposed of in accordance with federal, state and local environmental control regulations. |
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14. Transport information

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| DOT Classification | Not a DOT controlled material (United States). |
| Identification | Not applicable |
| Special Provisions for Transport | Not applicable |

15. Regulatory information

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| Federal and State Regulations | Illinois chemical safety act: Zinc acetate (Cas No. 557-34-6) New York release reporting list: Zinc acetate (Cas No. 557-34-6) Pennsylvania RTK: Zinc acetate (Cas No. 557-34-6) Massachusetts RTK: Zinc acetate (Cas No. 557-34-6) Massachusetts spill list: Zinc acetate (Cas No. 557-34-6) New Jersey: Zinc acetate (Cas No. 557-34-6) New Jersey spill list: Zinc acetate (Cas No. 557-34-6) Louisiana spill reporting: Zinc acetate (Cas No. 557-34-6) California Director's List of Hazardous Substances: Listed as Zinc compounds SARA 313 toxic chemical notification and release reporting: Listed as Zinc compounds CERCLA: Hazardous substances.: Zinc acetate (Cas No. 557-34-6): 1000 lbs. (453.6 kg) |
| Other Regulations | OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). Zinc Acetate (CAS no. 557-34-6) is listed on the Canadian DSL, but Zinc Acetate, dihydrate (CAS no. 5970-45-6) is not listed on the Canadian DSL |
| Other Classifications | |
| WHMIS (Canada) | CLASS D-2B: Material causing other toxic effects (TOXIC). |
| DSCL (EEC) | R22- Harmful if swallowed. R36- Irritating to eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. |

HMIS (U.S.A.)**Health Hazard****Fire Hazard****Reactivity** 2**Personal Protection** 1

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National Fire Protection Association (U.S.A.)**Health****Flammability****Reactivity** 2**Specific hazard** 1

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Protective Equipment

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other informationwww.rxmarine.com

Other Information

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