

1. Product and Company Identification

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Product Name
Part Number

Zinc Chloride
RXSOL-60-6141-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Chennai, Kolkata, Visakhapatnam, Fujairah

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Email 123@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

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| Name of Substance | Cas Number |
|-------------------|------------|
| Zinc chloride | 7646-85-7 |

3. Hazards Identification

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Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements - prevention

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection

Precautionary statements - response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor if you feel unwell.

4. First Aid Measures

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Eye Contact

Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact

In case of contact, immediately flushes skin with plenty of water. Remove contaminated clothing and shoes. Cover the affected area with a clean, dry cloth. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.

Ingestion:

Do not induce vomiting. Obtain medical attention. If vomited, do not drink anything. Lie on left side (head-down position, if possible) to maintain airway open. Get medical attention.

Notes to Physician

Treat symptomatically

5. Fire-fighting Measures

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Flammability of the Product
Suitable extinguishing media

Hazardous combustion products

Protective Equipment
Special protective equipment for firefighters

Further information

Non-flammable.

Use extinguishing measures that are appropriate to environment.

When heated to decomposition Hydrochloric Acid, and Zinc Oxide

Use personal protective equipment.

Stay in danger area only with self-contained breathing apparatus at safe distance or by wearing suitable protective clothing.

Suppress (knock down) gases/vapors with water spray jet. Prevent fire extending to surrounding contaminating surface water or

6. Accidental Release Measures

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Spillage

Personal Protection

Environmental Precaution

Methods and materials for containment and cleaning

Corrosive solid. Stop leak if without risk. Do not get material on skin. Use water spray to reduce vapors. Prevent fire. Use dike if needed. Call for assistance on disposal. Be aware of concentration level above TLV. Check TLV on the MSDS.

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe area. For protection see section 8.

Prevent further leakage or spillage if safe to do so. Do not get into environment must be avoided.

Pick up and arrange disposal without creating dust. Store in containers for disposal. Cover drains.

7. Handling and Storage

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Handling

Storage
General occupational hygiene

Keep locked up.. Keep container dry. Do not ingest. Do not get on skin. In case of insufficient ventilation, wear suitable respiratory protection. In case of contact with skin, wash immediately with plenty of water. Medical advice immediately and show the container or label. Keep away from incompatibles such as oxidizing agents.

Deliquescent. Keep container tightly closed. Keep container dry.

Immediately change contaminated clothing. Apply first aid measures after working with substance.

8. Exposure controls and personal protection

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Engineering Control

Personal Protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep exposure to airborne contaminants below the recommended exposure limits. If user operation requires, use appropriate respiratory protection.

Eye/face Protection: Wear appropriate protective eye/face protection by OSHA's eye and face protection regulations in 29 CFR 1910.133. Splash goggles. Full suit. Vapor and dust respirator. Be aware of concentration level above TLV. Check TLV on the MSDS.

Other Protection Measure

Exposure Limit

be used to avoid inhalation of the product. Suggest consult a specialist BEFORE handling this product.

Handle in accordance with good industrial hygiene and

TWA: 1 STEL: 2 (mg/m³) [United Kingdom (UK)]

[United States] TWA: 1 STEL: 2

(mg/m³) from OSHA (PEL) [United States] Consult lo



Gloves Suit

9. Physical and chemical properties

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| | |
|-----------------------------|---|
| Form | Powder |
| Colour | White |
| Odour | Odourless |
| Odor Threshold | Not Applicable |
| pH | ca. 5 at 100 g/l 20 °C |
| Melting Point/Range | 287 - 304 °C at ca.1,013 hPa Method: OECD Test Guideline 102 |
| Boiling Point/Boiling Range | 732 °C at 1,013 hPa |
| Flash Point | Not Applicable |
| Evaporation Rate | Not Applicable |
| Flammability (solid, gas) | The product is not flammable. |
| Explosive limits | No Data Available |
| Vapour pressure | 1.33 hPa at 428 °C |
| Vapour Density | No information available |
| Density | 2.93 g/cm ³ at 22 °C Method: OECD Test Guideline 109 |
| Partition coefficient | No data available |
| Explosive properties | None |
| Solubility in water | 851 g/l at 25 °C Method: OECD Test Guideline 105 |
| Ignition temperature | No information available. |
| Decomposition temperature | ca.360 °C |
| Viscosity, dynamic | No information available. |
| Oxidizing properties | None |
| Bulk density | ca.1,400 - 1,800 kg/m ³ |

10. Stability and reactivity

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|------------------------------------|--|
| Reactivity | No Data Available |
| Stability | The product is chemically stable under standard ambient conditions (room temperature). |
| Possibility of hazardous reactions | Violent reactions possible with: sodium, Strong oxidizing agents |
| Conditions to avoid | Exposure to moisture |
| Incompatible materials | Strong oxidizing agents |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. Toxicological information

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|----------------|---|
| Route of Entry | Absorbed through skin. Dermal contact. Inhalation. Ingestion. |
|----------------|---|

| | |
|---|--|
| Toxicity to Animal | Acute oral toxicity (LD50): 329 mg/kg [Mouse]. |
| Toxic Effects on Human | May cause damage to the following organs: upper respiratory tract. Other Very hazardous in case of skin contact (irritant) of inhalation. Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive). |
| Special Remarks on other Toxic Effects on Humans: | Acute Potential Health Effects: Skin: Causes skin irritation with possible burns, especially if skin is wet or moist. May the skin. Eyes: May cause severe irritation with possible eye burns and irreversible eye injury. May cause corneal opacification, and glaucoma and severe iritis. Eye or skin contact may result in mild, moderate, or severe irritation depending on the concentration and duration of exposure. Inhalation: May cause severe respiratory tract irritation, behavior. Ingestion: Harmful if swallowed. May cause severe digestive tract irritation with nausea, vomiting, diarrhea and possible burns |

12. Ecological information

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|------------------------------------|---|
| Eco Toxicity | Not Available |
| COD and BOD 5 | Not Available |
| Products Biodegradation: | Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Products of Biodegradation: The products of degradation are less toxic than the product itself. |
| Mobility in soil | No Information available |
| Results of PBT and vPvB assessment | PBT/vPvB: Not applicable for inorganic substances |
| Other adverse effects | Additional ecological information. Hazard for drinking water supplies. Discharge into the environment must be avoided |

13. Disposal considerations

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|------------------------|---|
| Waste treatment Method | Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original mixing with other waste. Handle uncleaned containers like the product itself. |
|------------------------|---|

14. Transport information

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Land transport (ADR/RID)

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|------------------------------|--------------------------|
| UN Number | UN 2330 |
| Proper shipping name | ZINC CHLORIDE, ANHYDROUS |
| Hazard Class | 8 |
| Packing group | III |
| Special precautions for user | No Data Available |
| Tunnel restriction code | E |

TDG

| | |
|------------------------------|--------------------------|
| UN Number | UN 2330 |
| Proper shipping name | ZINC CHLORIDE, ANHYDROUS |
| Hazard Class | 8 |
| Packing group | III |
| Special precautions for user | No Data Available |
| Tunnel restriction code | E |

IATA

| | |
|------------------------------|--------------------------|
| UN Number | UN 2330 |
| Proper shipping name | ZINC CHLORIDE, ANHYDROUS |
| Hazard Class | 8 |
| Packing group | III |
| Special precautions for user | No Data Available |
| Environmentally hazardous | Yes |

IMDG/IMO

| | |
|------------------------------|--------------------------|
| UN Number | UN 2330 |
| Proper shipping name | ZINC CHLORIDE, ANHYDROUS |
| Hazard Class | 8 |
| Packing group | III |
| Special precautions for user | No Data Available |
| EmS | F-A S-B |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant

15. Regulatory information

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Federal and State Regulation

Connecticut hazardous material survey.: Zinc chloride
 employee act: Zinc chloride Illinois chemical safety act:
 list: Zinc chloride Rhode Island RTK hazardous substance
 chloride Minnesota: Zinc chloride Massachusetts RTK: Z

Other Regulation

OSHA: Hazardous by definition of Hazard Commun
 EINECS: This product is on the European Inventory of E

WHMIS (Canada)

CLASS D-1B: Material causing immediate and serious
 Material causing other toxic effects. CLASS E: Corrosive

DSCL (EEC)

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects

HMIS

Health Hazard : 3
 Fire Hazard : 0
 Reactivity : 0
 Personal Protection : j

Fire :

Health Hazard : 2
 Fire Hazard : 1
 Reactivity : 3
 Specific Hazard :

16. Other information

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Other Information

The information above is believed to be accurate and complete as far as it is available to us. However, we make no warranty of accuracy, express or implied, with respect to such information, and we do not intend that it should make their own investigations to determine its accuracy for particular purposes. In no event shall we be liable for any damages, including for lost profits or any special, indirect, incidental, or consequential damages arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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