

1. Product and Company Identification

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Product Name

Zinc Chloride

Part Number

RXSOL-60-6141-025

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Gandhidham, Kolkata, Chennai, 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
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Zinc chloride	7646-85-7
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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 p

Precautionary statements - response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously wit

lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately cal

4. First Aid Measures

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Eye Contact

Check for and remove any contact lenses. In case of contact with 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, removing contaminated clothing and shoes. Cover the injured area with a clean, dry cloth. Cold water may be used. Wash clothing before reuse. Thoroughly decontaminate hands and face. Get medical attention.

Inhalation:

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

Ingestion:

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

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 a 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 on skin or clothing. Use water spray to reduce vapors. Prevent fire. Use dike if needed. Call for assistance on disposal. Be careful 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 on skin or clothing. Environment must be avoided.

Pick up and arrange disposal without creating dust. Use appropriate 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 or clothing. In case of insufficient ventilation, wear suitable respiratory protection. Get 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 protective 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 exposure limits. If user operation requires, use appropriate respiratory protection.

Eye/face Protection: Wear appropriate protective eye protection as required by OSHA's eye and face protection regulations in 29 CFR 1910.133. Splash goggles. Full suit. Vapor and dust respirator. Be careful 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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Rout Of Entry	Absorbed through skin. Dermal contact. Inhalation. Ingestion.
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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.
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14. Transport information

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Land transport (ADR/RID)

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 substanc
 chloride Minnesota: Zinc chloride Massachusetts RTK: Z
 Other Regulation
 WHMIS (Canada)
 DSCL (EEC)
 OSHA: Hazardous by definition of Hazard Commun
 EINECS: This product is on the European Inventory of E
 CLASS D-1B: Material causing immediate and serious
 Material causing other toxic effects. CLASS E: Corrosive
 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 available to us. However, we make no warranty of accuracy, express or implied, with respect to such information, and we do not intend that you should make their own investigations to determine the accuracy of the information 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 in writing of the need for such information.

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