Material Safety Data Sheet

Scale Lime Cleaner DE Limer Machine Descaler (RXSOL-15-1052-025)

1. Product and Company Identifaction

Product Name	Scale Lime Cleaner DE Limer Machine Descaler
Part Number	RXSOL-15-1052-025

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

Branch : Sikka, Kandla, Dahej , Hazira, JNPT, Goa, Mngalore, Cochin, Tuticorin,Chennai, Kakinada,Vizag, Paradip, Haldia, Kolkata,Fujairah.

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

2. Composition / informationon ingredients

Name of Substance	Cas Number	Classification	Molecular weight
Hydrogen Chloride (Solution 30%)	7647-01-0	C, R23-35	5-40%
Phosphoric Acid (Solution 85%)	7664-38-2	C, R34	5-40% C

Ingredients that do not contribute to the classification of the product 20-90% -

3. Hazards Identification

A clear liquid with pungent, irritating odor

DANGER! Causes severe burns. Irritating to respiratory system.

4. First Aid Measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Immediately flush the contaminated skin with soap and water. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention. 2
Eye Contact	Immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this chemical.
INGESTION	If this chemical has been swallowed, get medical attention immediately.

5. Fire-fighting Measures

EXTINGUISH MEDIA	Non- combustible substance. It doesn't burn itself but may decompose upon heating to produce corrosive and/or toxic fumes. Use dry chemical, CO2, alcohol-resistant foam or water spray.
FIRE FIGHTING PROCEDURES	Approach fire from upwind to avoid hazardous vapors. Use flooding quantities of water as fog or spray to keep fire exposed containers cool. Extinguish fire using agent suitable for surrounding fire. Firefighters should wear chemical protective suit with self contained positive-pressure breathing apparatus.
HAZARDOUS COMBUSTION PRODUCTS	On combustion, form toxic fumes of phosphorous oxides and hydrogen chloride.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective gear for the situation. See personal protection information in section 8.
Environmental Precautions	Prevent run off into ground and surface waters or into sewers.
Methods and material for containment and cleaning up	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

HANDLING	Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any protective clothing or shoes which become contaminated should be removed immediately, and laundered before wearing again. Follow protective controls set forth in Section 8 when handling this product. 3
STORAGE	Store in closed, properly labeled, rubber-lined steel, acid-resistant plastic, or glass containers. Do not store near strong alkalies or reactive materials. Do not remove or deface label or tag.

8. Exposure controls and personal protection

EXPOSURE LIMITS	Name of Substance: Hydrogen Chloride
OSHA Permissible Exposure Level (PEL)	Ceiling concentration 5 ppm (7 mg/m3)
ACGIH Threshold Limit Value (TLV)	Ceiling concentration 5 ppm IARC International Agency for Research on Cancer: Human Inadequate Evidence Name of Substance: Phosphoric Acid.
OSHA Permissible Exposure Level (PEL)	8 hour time-weighted average 1 mg/m3.
ACGIH Threshold Limit Value (TLV)	Short term exposure limit 3 mg/m3.
ACGIH Threshold Limit Value (TLV)	Time-weighted average 1 mg/m3.
PERSONAL PROTECTION	Eye and face protection: Wear safety glasses which are splash proof and face shield.
Skin protection	Wear impervious clothing, boots and gloves.
Respiratory protection	Wear a full face respirator with acid gas canister where vapors exceed or are likely to exceed 5 ppm.

9. Physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Acidic
Odor Threshold	No information available
pH	1
Melting Point/Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	None
Evaporation Rate	Not Available
Explosion Limits	Lower Explosion Limit (vol %): None Upper Explosion Limit (vol %): None
Vapor Pressure	Not Available
Relative vapor density (air=1)	Not Available
Density (g/ml)	1.1-1.2/150C
Water Solubility	Not Available
Partition coefficient:n-octanol/water	Not Available
Auto-ignition temperature	253,0 °C
Viscosity	Not Available
Solubility	Completely Soluble In Water

10. Stability and reactivity

STABILITY	Product is stable under normal use and storage.
Conditions to Avoid	Contact with strong bases can cause violent reaction generating large amounts of heat. Reactions with metals can release flammable hydrogen gas.
MATERIALS TO BE AVOIDED	The substance decomposes on contact with alcohols, aldehydes, cyanides, phenols, esters, and halogenated organics producing toxic fumes. Attacks many metals forming flammable/explosive gas (hydrogen). The substance is a medium strong acid, reacts violently with bases.

Hazardous Products	Decomposition	The formation of toxic gas Chlorine, flammable gas of Hydrogen and toxic fumes of Oxides of Phosphorous is possible.

11. Toxicological information

EXPOSURE LIMITS	Name of Substance: Hydrogen Chloride SKIN AND EYE IRRITATION DATA Eye rabbit: 5 mg/30s rinse
ACUTE TOXICITY DATA	Inhalation mouse lethal concentration (50 percent kill): 1,108 ppm/1 hour 5 Inhalation rat lethal concentration (50 percent kill): 3,124 ppm/1 hour Inhalation rabbit lowest published lethal concentration: 4,413 ppm/30 minute SKIN AND EYE IRRITATION DATA Eye rabbit: 119 mg/24 hour Skin rabbit: 595 mg/24 hour.
ACUTE TOXICITY DATA	Oral rat lethal dose (50 percent kill): 1,530 mg/kg Inhalation rat lethal concentration (50 percent kill): >850 mg/m3/1 hour Skin rabbit lethal dose (50 percent kill): 2,740 mg/kg HEALTH EFFECTS
Inhalation	Exposure to high concentrations of vapour or mist can cause burning sensation, cough, laboured breathing, shortness of breath and sore throat. Symptoms may be delayed.
Skin contact	Liquid hydrochloric acid or concentrated vapors can rapidly cause burning of skin. Repeated or prolonged contact with dilute solutions, and concentrated vapors, can cause irritation and dermatitis.
Eye contact	Liquid or concentrated vapors can cause eye irritation, severe burns and permanent damage including blindness.
Ingestion	Can cause severe burns of mouth, oesophagus and stomach. Nausea, pain and vomiting frequently occur.

12. Ecological information

ECOTOXICOLOGICAL DATA	Name of Substance: Hydrogen Chloride Acute LC50 (48 hours) for Buegill: 3.6 mg/l Acute LC50 (96 hours) for Mosquito Fish: 282 ppm
Fish toxicity	fish LC50: 138 mg/l; Aquatic organisms LC50: 100-1000 mg/l 96 h
DEGRADATION	Hydrogen chloride and phosphoric acid in water dissociates almost completely and will be neutralized by natural alkalinity and carbon dioxide. It will also sink into the soil and will be somewhat neutralized. 6
Bioaccumulative potential	No data available

13. Disposal considerations

DISPOSALS METHODS	All disposals of this material must be done in accordance with local, state and Federal regulations. Waste characterization and compliance with disposal regulations are the responsibilities of the waste generator. Recovered solids or liquids may be sent to a licensed reclaimed or disposed of in a permitted waste management facility.

14. Transport information

ADR/RID

UN number	3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic NOS (Hydrochloric Acid, Phosphoric Acid)
Hazard Class	8
Packing Group	III

IMDG

UN number	3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic NOS (Hydrochloric Acid, Phosphoric Acid)
Hazard Class	8
Packing Group	III

IATA

UN number	3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic NOS (Hydrochloric Acid, Phosphoric Acid)
Hazard Class	8
Packing Group	III

15. Regulatory information

S26	In case of contact with eyes rinse immediately with plenty of water and seek medical advice..
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection. 7
S45	In case of accident of if you feel unwell seek medical advice immediately (show the label where possible).
S23	Do not breathe gas/vapour.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
Classification according to EC guidelines	The product has been classified and labelled in accordance with current EC Directives. Risk phrases: 36/38 Irritating to eyes skin and skin.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.