

Product Name: Lime Scale Remover

Part No / SKU: RXSOL-11-1052-210

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Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Lime Scale Remover
Part Number	: RXSOL-11-1052-025

Company Details:
RX MARINE INTERNATIONAL
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Name of Substance	Cas Number	EINECS No	Wt. %	Symbol
PHOSPHORIC ACID	7664-38-2	231-633-2	10 -30 %	Xi
ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE	68424-85-1	270-325-2	10 - 30%	Xn
Quaternary Ammonium Chloride	68391-01-5	269-919-4	10 - 30%	C
Propan-2-ol	67-63-0	200-661-7	1 - 5 %	Xi

3. HAZARDS IDENTIFICATION

Classification (EC 1272/2008) Physical hazards	Not Classified
Health hazards	Skin Corr. 1B - H314 Eye Irrit. 2 - H319
Environmental hazards	Aquatic Chronic 3 - H412
Label elements	Pictogram
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects
Precautionary statements	P280 Wear protective clothing, gloves, eye and face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
Contains	PHOSPHORIC ACID
Detergent labelling	5% cationic surfactants, 5% non-ionic surfactants, Contains ALPHASOMETHYLIONONE, CITRONELLOL, LIMONENE
Supplementary precautionary statements	P362+P364 Take off contaminated clothing and wash it before reuse.
Other hazards	None

4. FIRST AID MEASURES

Description of first aid measures Inhalation	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.
Most important symptoms and effects, both acute and delayed Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	This product is strongly corrosive.
Eye contact	Causes serious eye damage
Notes for the doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Hazardous combustion products	None known.
Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precaution	Avoid discharge to the aquatic environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Collect and dispose of spillage as indicated in Section 13
Methods and materials for containment and cleaning up	Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.
Reference to other sections	For personal protection, see Section 8.

7. HANDLING AND STORAGE

Precautions for safe handling Usage precautions	Avoid spilling. Avoid contact with skin and eyes.
Storage precautions	Store in closed original container at temperatures between 0°C and 30°C. Store away from incompatible materials (see Section 10).
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PHOSPHORICACID	Long-term exposure limit (8-hour TWA): WEL 1 mg/m ³ Short-term exposure limit (15-minute): WEL 2 mg/m ³ WEL = Workplace Exposure Limit
Ingredientcomments	WEL = Workplace Exposure Limits
DNEL	Workers - Inhalation; Long term local effects: 1 mg/m ³ Workers - Inhalation; Short term local effects: 2 mg/m ³ General population - Inhalation; Long term local effects: 0.73 mg/m ³
ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE (CAS: 68424-85-1) DNEL	Workers - Inhalation; Long term systemic effects: 3.96 mg/m ³ Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day General population - Inhalation; Long term systemic effects: 1.64 mg/m ³ General population - Dermal; Long term systemic effects: 3.4 mg/kg/day General population - Oral; Long term systemic effects: 3.4 mg/kg/day
PNEC	- Fresh water; 0.0009 mg/l - Marine water; 0.00096 mg/l - Intermittent release; 0.00016 mg/l - STP; 0.4 mg/l - Sediment (Freshwater); 12.27 mg/kg - Sediment (Marinewater); 13.09 mg/kg - Soil; 7 mg/kg
Personal Protection	Eye protection : Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Rubber (natural, latex).
Appropriate engineering controls	Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Provide eyewash station and safety shower. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations



Gloves



Suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid.
Colour	Blue.
Odour	Perfume.
Odour threshold	Not determined.
pH	pH (concentrated solution): 1.3
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable
Evaporation rate	Not determined
Upper/lower flammability or explosive limits	Not applicable
Vapour density	Not determined.
Relative density	Not determined.
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	Not applicable
Solubility(ies)	Soluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not applicable.
Oxidising properties	Does not meet the criteria for classification as oxidising.
Other information	None

10. STABILITY AND REACTIVITY

Reactivity	The following materials may react with the product: Alkalis. Chemically-active metals. Inorganic halides. Oxidising agents. Isocyanates
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not known
Incompatible materials	Strong oxidising agents. Acid-reactive materials. Alkalis. Inorganic halides. Isocyanates. chlorine-based bleaching agents
Hazardous decomposition products	No known hazardous decomposition products.
Condition to Avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Strong alkalis. Oxidising materials.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - oral ATE oral (mg/kg)	8,693.69
Acute toxicity - dermal Notes (dermal LD??)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation Notes (inhalation LC??)	Based on available data the classification criteria are not met.
Skin corrosion/irritation Skin corrosion/irritation	Corrosive to skin.
Serious eye damage/irritation Serious eye damage/irritation	Risk of serious damage to eyes.
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Does not contain any substances known to be mutagenic
Carcinogenicity Carcinogenicity	Does not contain any substances known to be carcinogenic.
Reproductive toxicity Reproductive toxicity - fertility	Does not contain any substances known to be toxic to reproduction.
Specific target organ toxicity - single exposure STOT - single exposure	No information available
Specific target organ toxicity - repeated exposure STOT - repeated exposure	No information available.
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
Inhalation	May cause damage to mucous membranes in nose, throat, lungs and bronchial system
Ingestion	May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	This product is corrosive.
Eye contact	May cause chemical eye burns.
Acute toxicity oral (LD?? mg/kg)	795.0
Species	Rat Rat
ATE oral (mg/kg)	795.0
Acute toxicity dermal (LD?? mg/kg)	1,560.0
Species	Rata
ATE dermal (mg/kg)	1,560.0
Skin corrosion/irritation Animal data	Primary dermal irritation index: 6.29

12. ECOLOGICAL INFORMATION

Ecotoxicity	Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	No data available
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)

14. TRANSPORT INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Regulations	In accordance with REACH Regulation (EC) No 1907/2006 as last amended with respect to SDS provisions by Commission Regulation (EU) 2015/830. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
Chemical safety assessment	No data available.

16. OTHER INFORMATION AND DISCLAIMER

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. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.
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