

1. Product and Company Identification

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Product Name RXSOL-90-1118-025
Product Type Efflorescence Cleaner Neutral

Company Details:

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

Stock Points: Mumbai, Kandla, Kolkata, Chennai, Visakhapatnam, Fujairah UAE, Muscat Oman, Kenya, Canada

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2. Composition / Information on ingredients

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Cas#	Chemical Name	Range(w/w%)
7320-34-5	Tetrapotassium Pyrophosphate	5 -10
1310-58-3	Potassium Hydroxide	5 - 10
5064-31-3	NITRILOTRIACETIC ACID,TRISODIUM SALT (NTA.3NA)	0.1-1.0
139-89-9	N-HYDROXYETHYLENEDIAMINE TRIACETIC ACID TRISODIUM SALT	15-40
102-71-6	TRIETHANOLAMINE	15-40
141-43-5	MONOETHANOLAMINE (ETHANOLAMINE)	10-20
111-42-2	DIETHANOLAMINE (ETHANOL,2,2'-IMINODI-)	3-7
119345-04-9	BENZENE, 1,1'-OXYBIS-,TETRAPROPYLENE DERIVATIVES, SULFONATED, SODIUM SALTS	1-5
-	Proprietary Blend of biodegradable surfactants and chelating agents	>70

3. Hazards Identification

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Severe irritant to the skin. Severe irritant to the eyes, possibly corrosive. Irritation of the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

DOT hazard: ORS (when container > RQ)

Odor: Slight; Appearance: Colorless To Amber, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS: Primary route of exposure; Severe irritant to the skin.

ACUTE EYE EFFECTS: Severe irritant to the eyes, possibly corrosive.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure;Irritation of the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

INGESTION EFFECTS:

May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:

Prolonged or repeated exposure may cause primary irritant dermatitis and/or toxicity to the liver, kidney, nervous system and blood. May increase the risk of cancer based on limited animal data.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing skin disorders and chronic respiratory disease.

SYMPTOMS OF EXPOSURE:

Causes irritation of the skin, eyes, and/or respiratory system.

4. First Aid Measures

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General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. .
Swallowed	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation	Remove patient to fresh air, keep warm and at rest and get medical assistance in necessary.
Protection of first-aiders	In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
Most important symptoms and effects, both acute and delayed	See Section 11 for more detailed information on health effects and symptoms.
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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Flammability	May be combustible at high temperature.
Flash Point	Higher than 93.3°C (200°F).
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.
Special hazards arising from the substance or mixture	Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
Specific hazards during firefighting	Not flammable or combustible.
Special protective equipment for firefighters	Use personal protective equipment.
Specific Hazards Arising from the Chemical	Has a fire-promoting effect due to the release of oxygen. Ambient fire may liberate hazardous vapours.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning	Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

7. Handling and Storage

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Advice on safe handling	Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.
Suitable material	The following compatibility data is suggested based on similar product data and/or industry experience: HDPE (high density polyethylene), Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., Mild steel, Stainless Steel 316L, Polyurethane, Buna-N, EPDM, Polyethylene, Polypropylene, PVC, Epoxy phenolic resin, Neoprene, Chlorosulfonated polyethylene rubber, Fluoroelastomer
Unsuitable material	The following compatibility data is suggested based on similar product data and/or industry experience: Brass, 100% phenolic resin liner
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Precautions for safe handling	For precautions see section 2.2.
Conditions for safe storage, including any incompatibilities	Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.
Storage conditions	Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Advice on general occupational hygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

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Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Hydroxide	1310-73-2	C	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL

	TWA	2 mg/m3	OSHA Z1
Exposure controls		No specific additional engineering controls are required. Provide good natural or artificial ventilation.	
Engineering measures		Effective exhaust ventilation system Maintain air concentrations	
Eye/face protection		Safety goggles Face-shield	
Hand protection		Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.	
Body Protection		protective clothing	
Skin protection		Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing	
Respiratory protection		When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.	
Other Protection Measure		Handle in accordance with good industrial hygiene and safety practice.	
Control of environmental exposure		Do not let product enter drains.	
Hygiene measures		Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.	

9. Physical and chemical properties

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Physical state	Liquid
Colour	Light yellow
Odour	Slight
Odor Threshold	Not Applicable
pH	7-8 100 %
Melting Point	FREEZING POINT: -13 °C
Boiling Point	107 °C
Flash Point	> 93.3 °C
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Density	1.1 g/cm3
Freezing point	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
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Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Freezing temperatures.
Incompatible materials	Contact with reactive metals (e.g. aluminum) may result in the generation of flammable hydrogen gas. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

11. Toxicological information

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Acute oral toxicity	LD50 rat: > 2,000 mg/kg Test substance: Product
Information on likely routes of exposure	Inhalation, Eye contact, Skin contact
Skin	Causes severe skin burns.
Eyes	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Inhalation	May cause nose, throat, and lung irritation.
Chronic Exposure	Health injuries are not known or expected under normal use.
Carcinogenicity	No data available
Germ cell mutagenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxi Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.
Additional Information	RTECS: AF3675000 Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. After uptake of large quantities: muscular symptoms agitation Convulsions Headache Tremors Nausea psychoses
Endocrine disrupting properties	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male - Oral - 2 yr - NOAEL (No observed adverse effect level) - 600 mg/kg RTECS: LS9625000 Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability	The organic portion of this preparation is expected to be inherently biodegradable. Total Organic Carbon (TOC) : 94,000 mg/l
Toxicity to fish	LC50 Lepomis macrochirus (Bluegill sunfish): 1,030 mg/l Exposure time: 96 hrs Test substance: Product LC50 Fish: 41 - 2,070 mg/l Exposure time: 96 hrs Test substance: Similar Product NOEC Lepomis macrochirus (Bluegill sunfish): 456 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	LC50 Daphnia magna (Water flea): > 500 mg/l Exposure time: 24 hrs Test substance: Similar Product

Toxicity to algae	LC50 Algae: 10 - 100 mg/l Exposure time: 72 hrs Test substance: Similar Product
Eco Toxicity	This product has no known ecotoxicological effects.
COD and BOD 5	Not Available
Products Biodegradation	The methods for determining the biological degradability are not applicable to inorganic substances.
Mobility	