Material Safety Data Sheet

Passivation Liq. Blend with Citric Acid (RXSOL-20-1108-025)

1. Product and Company Identifaction

Product Name	RXSOL-20-1108-025
Product Type	Passivation Liq. Blend with Citric Acid

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Chemicals /Ingridents	CAS No.	EC No.	Contents weight-%	Hazard symbol/ Risk phrase*
Citric Acid	77-92-9	201-069-1	20-40	R34, R36/37/38, R41
Proprietory Blend	-----	-----	20-30	----------
KoH	1310-58-3	-----	-----	----------

3. Hazards Identification

Environmental Hazards	Harmful to aquatic organism
Human Health Hazards	Burning cause sensitization by the skin contact
Physical & Chemical Hazards	None none

4. First Aid Measures

Ingestion	If conscious washout mouth and give out one pint of water to drink . Do not induce vomiting without medical attention .
Inhalation	Remove to fresh air . Obtain medical attention
Eye Contact	Flush with water for at least 15 minutes. Obtain medical attention

5. Fire-fighting Measures

Extinguishing Media:-

Suitable	Non Flamable, Use extinguishing media like foam dry Co2
Not suitable	Not applicable
Special	Not applicable
Protection of fire Fighter	Not applicable

6. Accidental Release Measures

Personal Precaution & Protection	Evacuate, isolate hazard area and deny entry.Avoid contact with: skin, eyes and clothing. Take off immediately all contaminated clothing. Note that contaminated clothing may be a fire hazard. Contaminated clothing should be soaked with water before being removed. It must be laundered
Environmental Protection	Prevent from entering into drains, ditches or rivers. Use appropriate containment to avoid environmental contamination. **Clean Up Method :** **Small Spillage:** Absorb or contain liquid with sand, earth or spill control material. Allow to evaporate or shovel up and place in a labeled, sealable container for subsequent safe disposal. Do not disperse using water. **Large Spillage:** Dike far ahead of liquid spill for later disposal. Do not flush to sewer or waterways. Prevent release to environment if possible.

7. Handling and Storage

Handling : Respiratory & Eye System Protection Do not breath . Avoid contact with skin and eyes . In case of contact with skin , wash immediately with plenty of fresh water.

Storage : Store in tightly closed containers in dry, ventilated and locked hazardous chemical store with leak containment. Protect against physical damage and keep away from heat, source of ignition and incompatibles.

8. Exposure controls and personal protection

Engineering Control : Provide mechanical ventilation for confined spaces.

Eye Protection : Wear chemical safety goggles and face shield. Have eye-wash station available where eye contact can occur.

Skin Protection : Wear glove impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or overall.

Respiratory Protection : Full face shield operated at positive pressure. Self-contained breathing apparatus may be required in confined spaces or non routine or emergency situations. .

9. Physical and chemical properties

Specific Gravity	>1
Approx. wt. /gallon	9.5 lb/gal
Viscosity	3 cps
Form	Liquid
Chemical Composition	Proprietary ingredients with CITRIC
Operating Temperature	Room temp or higher (120-160°F preferred)
Flash Point	None
Water solubility	Complete
Normal working concentration	20-33% by volume in water
pH at working concentration	1-2

10. Stability and reactivity

Chemical Stability : Stable
Possibility of hazardous reaction : Reacts with most metals producing hydrogen gas and nitrogen oxides
Condition to avoid : Intense heat.
Incompatible materials : Strong bases. Strong reducing agents. Most common metals. Organic material. Alcohols. Carbides
Hazardous decomposition material : Formationof hazardous combustion gases or vapours possible

11. Toxicological information

Routes of Entry: Inhalation. Ingestion. Toxicity to Animals: Acute oral toxicity (LD50): 3000 mg/kg [Rat]. Chronic Effects on Humans: May cause damage to the following organs: teeth. Other Toxic Effects on Humans: Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion. Special Remarks on Toxicity to Animals: LDL[Rabbit] - Route: oral; Dose: 7000mg/kg Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Causes mild to moderate skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Eyes: Causes moderate to severe eye irritation and possible injury. Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea. Excessive intake may cause erosion of teeth and hypocalcemia (calcium deficiency in blood). May affect behavior/central nervous system (tremor, convulsions, muscle contraction or spasticity). Inhalation: Causes moderate respiratory tract and mucous membrane irritation. Chronic Potential Health Effects: Frequent intake of citrated beverages may cause erosion of dental enamel and irritation of

12. Ecological information

Ecotoxicity: Not available. BOD5 and COD: Not available. Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

13. Disposal considerations

Neutralize the product with lime soda or ash before dispose. Upon neutralization of remaining acid rests and rinsing water can heavy metals precipitate and these constitute hazardous waste.

Additional information:
Effluent must be separated and disposed of as acidic waste. The product has in the undiluted form toxic effects on soil and water. The remaining acid rests and rinsing water can lower the pH value of wastewater and therefore should not be released until it has undergone a neutralization process.

14. Transport information

UN Number Not a DOT controlled material
UN PROPPER SHIPPING NAME Citric Acid

TRANSPORT HAZARD CLASS(ES) : Not Classified

ADDITIONAL INFORMATION : Not a DOT controlled material

15. Regulatory information

Federal and State Regulations: TSCA 8(b) inventory: Citric acid Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications: WHMIS (Canada): CLASS E: Corrosive solid. DSCL (EEC): R36/37/38- Irritating to eyes, respiratory system and skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39- Wear suitable gloves and eye/face protection. HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 1 Reactivity: 0 Personal Protection: e National Fire Protection Association (U.S.A.): Health: 2 Flammability: 1 Reactivity: 0 Specific hazard: Protective Equipment: Gloves (impervious). Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

16. 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 Rx Marine International 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.