Material Safety Data Sheet

Passivation Liquid RX (RXSOL-20-2401-210)

1. Product and Company Identifaction

Product Name	**RXSOL-20-2401-210**
Product Type	**Passivation Liquid**

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*
Nitric acid, HNO3	7697-37-2	231-714-2	20-40	O, C: R8, R35
HF	7664-39-3	231-634-8	----	R26/27/28, R35
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

Appearance	Liquid @ 25’C, clear, colourless
Odour	Pungent acidic
Boiling point 0C	105
Melting point 0C	-20
pH	1 @ 1% solution
Specific Gravity	1.2 g/ml

Flash point (closed cup) 0C	Not Applicable
Vapor Pressure	None
Vapor Density	None
Solubility in with water	Fully Soluble.
Flammability (solid, gas)	Not Applicable
Upper/Lower Flammability/Explosive Limits	Not Applicable
Autoignition temperature	Not Applicable
Decomposition Temperature	Not Applicable

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

Signs and symptoms of overexposure : Eye irritation, headache, nausea, vomiting.

Acute Effects :
Eye contact : May cause cornea damage and permanent eye damage
Skin contact :Blistering and burn. Progressive ulceration will occur if treatment is not immediate.
Inhalation : Acute Toxicity
LD/LC50 values relevant for classification:
Oral LD50 1276 mg/kg (rat) - 1 hour- for Hydrofluoric acid
67 mg/kg (rat) – 4 hours -for Nitric acid
Sensitization : No sensitizing effects known.

12. Ecological information

Excoticity	Harmful effect on aquatic organisms due to pH shift
Persistence anddegradability	No data available
Bio-accumulative potential	No data available

Mobility	Soluble in water. Readily absorbed into soil
Other adverse effects	No data available

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
2922
UN PROPPER SHIPPING NAME
CORROSIVE LIQUID, TOXIC, N.O.S. (hydrofluoric acid, nitric acid)

TRANSPORT HAZARD CLASS(ES)
Classification Code:
CT1

PACKING GROUP
II

ENVIRONMENTAL HAZARDS
IMDG (Sea):
Class 8 (6.1) EmS F-A, S-B
Marine Pollutant: No

ADR/RID (road, rail):
Class 8 (6.1)
Tunnel restriction code: (E)

IATA/DGR (air):
Class 8 (6.1)

ADDITIONAL INFORMATION
The product is to be transported according to dangerous goods regulations.

15. Regulatory information

Regulations:Hazard Symbols : Corrosive and Toxic
Risk Phrase

35 causes severe burns

Safety Phrase

23 Do not breathe in vapour.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise**.**

36/37/39 Wear suitable protective clothing and gloves and eye & face shield.

45 In case of accident or if you feel unwell, seek medical advice

Note

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

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