Material Safety Data Sheet

RX Tuff Highly Concentrated (RXSOL-22-3019-210)

1. Product and Company Identifaction

Product Name	:	**RXSOL-22-3002-HC**
Product Type	:	**RX TUFF Highly Concentrated**

Company Details:

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

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2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Potassium hydroxide	10-5%	1310-58-3	215-181-3	35	C
2-butoxy ethanol	1-5%	111-76-2	203-905-0	X	
Fatty alcohol ethoxylate	5-10%	34398-01-1	500-084-3	41	
Non classified ingredients	60-70				

3. Hazards Identification

Odour	Odourless
Appearance	Liquid, colourless , soluble in water
Contact with eyes	Corrosive to eyes, Can cause damage to the eyes
Contact with skin	Causes severe burns (R35)
Inhalation	No information available but must be considered harmful
Ingestion	Harmful if swallowed (R22)

4. First Aid Measures

Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water.Seek medical advice if necessary
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Irrigate eyes thoroughly whilst lifting eyelids.Obtain immediate medical attention.Continue flushing with water until medical help arrives
Ingestion	Do not induce vomiting.Never give anything by mouth to an unconscious person.Give water or milk to drink.Obtain immediate medical attention
Inhalation	Seek medical attention if ill effects occur
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).When in doubt or symptoms persist, seek medical attention

5. Fire-fighting Measures

Non combustible . Smoke from fires is corrosive.Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.Vapour density - not applicable

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8.
Environmental Precautions	Do not allow to enter public sewers and watercourses.
Clean Up Actions	Absorb spillage in inert material and shovel up.Ventilate the area and wash spill site after material pick-up is complete.Neutralise with Acid.
Special Precautions	Wear protective clothing as per section 8.

7. Handling and Storage

Handling	Eyewash bottles should be available.See Section 8
Storage	Keep only in the original container in a cool, well ventilated place (S3/9/49).Protect from frost

8. Exposure controls and personal protection

Exposure Limits	OES / LTEL # ppm 2 mg/m3.(Sodium hydroxide).
Exposure controls	No special ventilation is required unless the product is used in a spray form.
Occupational exposure controls	Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended).During fumigation/spraying wear suitable respiratory equipment (S42).

9. Physical and chemical properties

Odour	Odourless
Appearance	Liquid, colourless to yellow, soluble in water
pH	11.5 - 12.5 at 0.1 % concentration, pH 13 - 14 at 100 % concentration
Boiling point	>100 °C at 760 mm /Hg
Vapour pressure	not known
Vapour density	not applicable
Freezing point	5 °C at 760 mm/Hg
Completely soluble in water	
Specific gravity (water=1)	1.23
Non combustible	

10. Stability and reactivity

- This article is considered stable under normal conditions
- Avoid overheating, Keep away from frost
- Incompatible with acid
- See Section 5

11. Toxicological information

Toxicological information	No experimental data available
Inhalation	Can cause damage to the respiratory system
Contact with skin	Causes severe burns (R35)
Contact with eyes	Causes severe burns (R35)
Ingestion	The ingestion of significant quantities may cause burning sensation.The ingestion of significant quantities may cause damage to digestive system
Carcinogenicity	No evidence of carcinogenic effects

12. Ecological information

Ecotoxicity	This product has been evaluated on its behaviour in the environment by "The TNO Institue of Environmental Sciences" (The Netherlands organisation for applied Scientific Research). Their conclusion on this product reads: "In general, this cleaning agent poses little danger to the environment, its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable."Based upon their report, IMO's BCH Working Group on the Evaluation of Safety and Pollution Hazards approved this product for use as tank cleaning agent by chemical tankers.
Mobility	Completely soluble in water.
Persistence and Biodegradability	Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.
Bioaccumulation Potential	Bioaccumulation of the components in this product is insignificant.
Other Adverse Effects	May cause acute effects in the environment . No environmental problems are expected when the product is used / handled correctly.In its intended use, the product will not be released into the environment.

13. Disposal considerations

Classification	This material and/or its container must be disposed of as hazardous waste.EU Waste class: 06 02 02
Disposal considerations	Do not discharge into drains or the environment, dispose to an authorised waste collection point Disposal should be in accordance with local, state or national legislation

14. Transport information

Proper Shipping Name:	SODIUM HYDROXIDE, SOLUTION		
UN			
Proper Shipping Name	Potassium hydroxide, solution		
UN NO.	1824		
Hazard Class	8	Packing Group	II
Road/Rail (ADR/RID)			
Proper Shipping Name	Potassium hydroxide, solution		
ADR UN No.	1824		
ADR Hazard Class	8	Termcard	80S1824
Sear (IMDG)			
Proper Shipping Name	Potassium hydroxide, solution		
IMDG UN No.	1824		
IMDG Hazard Class	8	IMDG Pack Group	II
IMDG EmS	F-A, S-B	IMDG subrisk	NA
IMDG Labels		IMDG Flashpoint	N/A
Air(ICAO/IATA)			
ProperShippingName:	Potassium hydroxide, solution		
ICAO UnNo.:	1824		
ICAO HazardClass.:	8	ICAO PackingGroup.:	II
ICAO subrisk:	N/A	ICAO Labels	8, CAO
ICAO Flashpoint:	N/A		

DOT/CFR(US Department of Transportation

DOT Proper Shipping Name:	Potassium hydroxide, solution		
Hazardous Material	Potassium hydroxide		
Hazard Class:	8	Identification Number:	
Product RQ (lbs):	3640	DOT subrisk:	N/A
DOTLabels:	8	DOTFlashpoint:	N/A

- Forbidden on passenger aircraft

15. Regulatory information

Risk Phrases	Causes severe burns (R35).
Safety Phrases	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.Wear suitable protective clothing, eye/face protection.In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

(R35: Causes severe burns. R41: Risk of serious damage to eyes.).The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties.The data given here only applies when product used for proper application(s). The product is not sold as suitablefor other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

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