

1. Product and Company Identification

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Product Name **RXSOL-20-3002-020**
Product Type **RX TUFF Cleaner-I**

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemical Name	Concentration	CAS Number	EC Number	R Phrases*
Potassium hydroxide	10 - 5%	1310-58-3	215-181-3	35
2-butoxy ethanol	1 - 5%	31800-88-1	203-905-0	41
Fatty alcohol ethoxylate	5 -10 %	34398-01-1	500-084-3	34
Mixture of Surfactant - Cationic	3 - 4 %		Mix Blend	36

68989-03-7

4 - 5%

37

Metasilicate 6834-92-0 229-912-9

Non classified ingredients 60-70

3. Hazards Identification

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Corrosive

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

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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, 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 if the person is conscious and not vomiting. Seek immediate medical attention
Inhalation	Seek medical attention if ill effects occur. In case of accident or if you feel unwell, seek medical advice immediately (state the label where possible) (S45). When in doubt or symptoms persist, seek medical attention

5. Fire-fighting Measures

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- 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

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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

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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

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Exposure Limits	OES / LTEL # ppm 2 mg/m ³ (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)



Gloves Suit Goggles No_Smoking

9. Physical and chemical properties

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Odour	Odourless
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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

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

11. Toxicological information

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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

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Ecotoxicity	This product has been evaluated on its behaviour in the environment by "The TNO Institute of Environmental Science (TNO) (a Dutch Netherlands organisation for applied Scientific Research). Their conclusion on this product reads: "In general, this agent poses little danger to the environment, its main ingredients will either dissolve rapidly and dissociate in water readily/inherently biodegradable." Based upon their report, IMO's BCH Working Group on the Evaluation of Shipboard 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 correctly. In its intended use, the product will not be released into the environment.

13. Disposal considerations

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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

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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

Seas (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	8	IMDG Flashpoint	N/A

Air(ICA/O/IATA)

Proper Shipping Name	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(USDepartment ofTransportation)

DOTProperShippingName	Potassium hydroxide, solution		
HazardousMaterial	Potassium hydroxide		
Hazard Class	8	IdentificationNumber	
Product RQ (lbs)	3640	DOTsubrisk	N/A
DOTLabels	8	DOTFlashpoint	N/A

- Forbidden on passenger aircraft

15. Regulatory information

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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 if possible).

16. Other information

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Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R37: Irritating to respiratory system. The information provided about the product in 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 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 apply to the product as used for proper application(s). The product is not sold as suitable for 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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