



RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

RXSOL-31-3034-050

Chlorine Liq

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

www.rxmarine.com

Product Name	:	Holdbrite RXSOL
Part Number	:	RXSOL-22-2220-025

Specialized product for cargo hold cleaning.

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kolkata, Chennai, Vizag, Gandhidham, Fujairah, Muscat, Nairobi, Canada

Phone	:	+91 22 65113333 / 5555 / 9999 / 27611360
Fax	:	+91 22 2781 1318 ::::AOH :0091 9821214367
Email	:	mail@rxmarine.com

2. Composition / Information on ingredients

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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	
Disodium Metasilicate	1- 5%	6834-92-0	229-912-9		C
Quaternary Alkyl Amine ethoxylate Chloride	1 - 5%	863679-20-3	NA	41	
Non classified ingredients	60-70				

3. Hazards Identification

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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 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

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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).
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Gloves



Suit.



Goggles



No_Smoking

9. Physical and chemical properties

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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)	1.045 - 1.055
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 burns (R35).
Contact with eyes	Causes 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	"In general, this cleaning agent main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable." and Pollution Hazards approved this product for use as tank / hold 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	No environmental problems are expected when the product is used / handled correctly.

13. Disposal considerations

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Classification	Pollution Hazards approved this product for use as tank / hold cleaning agent by chemical tankers.
Disposal considerations	"In general, this cleaning agent compatible to the environment, its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable."

14. Transport information

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Proper Shipping Name		Potassium 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 Flash point	N/A
Air(ICA0/IATA)				
	Proper Shipping Name	Potassium hydroxide, solution		
	ICAO UnNo	1824		
	ICAO Hazard Class	8	ICAO Packing Group	II
	ICAO subrisk	N/A	ICAO Labels	8, CAO

ICAO Flash point	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

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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 where possible).

16. Other information

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(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 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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