Material Safety Data Sheet

RXSOL 4000 (RXSOL-43-4035-220)

1. Product and Company Identifaction

Product Name	: RXSOL 4000
Part Number	: RXSOL-43-4035-220

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

Branch : Kandla, Sikka, Dahej, Hazira, JNPT, Goa, Mangalore, Cochin, Tuticorin, Chennai, Kakinada, Vizag, Paradip, Kolkata, UAE, Singapore

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Email	123@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EINECS No	Wt.%	Symbol
Ammonium Bisulphite	10192-30-0	203-469-7	10 -30 %	Xi
Ethanediol	107-21-1	203-473-3	10 - 30%	Xn
Quaternary Ammonium Chloride	68391-01-5	269-919-4	10 - 30%	C
Propan-2-ol	67-63-0	200-661-7	1 - 5 %	Xi
Proprietory Biocide Mixture	---	---	---	---

3. Hazards Identification

Signal Word	None
Hazard Statements	Causes severe skin burns and eye damage.
Precautionary statements - prevention	Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection..
Precautionary statements - response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner. Disposal: Dispose of contents/ container to an approved waste disposal plant.

4. First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Inhalation:	If inhaled, If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion:	If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physicians	Treat symptomatically.

5. Fire-fighting Measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment	Use personal protective equipment.
Hazardous combustionproducts	Decomposition products may include the following materials: Nitrous gases (NOx),Sulphur oxides,Ammonia (NH3) ,Amines.
Advice for firefighters	Wear self-contained breathing apparatus. Wear full protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. Wear suitable personal protective equipment.Respiratory protective equipment.
Enviromental Precaution	Do not allow contact with soil, surface or ground water.If the products get into drains, inform the relevant authorities immediately.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

7. Handling and Storage

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.
Storage	Do not store near acids. Keep out of reach of children. Store in suitable labeled containers. Storage temperature : 10 °C to 50 °C
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

8. Exposure controls and personal protection

Engineering Control	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal Protection	Eye protection : Wear eye protection/ face protection. Hand protection : Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Exposure Limits:

Ingredients	CAS No	Form of exposure	Value	UK EH40 OES (table 2)
Sulphur Dioxide	7446-09-5	TWA	5.3 mg/m3	2 ppm
		STEL	13 mg/m3	5 ppm
Ethane-1-2-Diol	107-21-1	TWA	52 mg/m3	20 ppm
		STEL	104mg/m3	40 ppm
Oropan-2-ol	67-63-0	TWA	999 mg/m3	400 ppm
		STEL	1,250 mg/m3	500 ppm

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Colourless to slightly Yellow
Odour	Acrid, slight odour of Sulphur dioxide
Boiling point and boiling range	No Data Available
Flash Point	>100°C
Freezing Point	No Data Available
pH	6
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Explosive properties	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	1.05-1.11 g/cm3 (25?C)
Water solubility	Soluble
Solubility in other solvents	No data available
Partition coefficient: octanol	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
VOC	No data available

10. Stability and reactivity

Recativity	None
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Incompatible materials	Avoid to contact with strong acids Avoid to contact with oxidizing agents. Store away from aldehydes.
Hazardous Decomposition	Decomposition products may include the following materials: Sulphurous oxides (SOx) Nitrous oxides (NOx) Ammonia Amines
Condition to Avoid	None Known
Polymerization	Will not occur.

11. Toxicological information

Route of Exposure	Inhalation, Eye contact, Skin contact
Eyes	Causes serious eye damage.
Skin	Causes severe skin burns.
Ingestion	Causes digestive tract burns
Inhalation	Inhalation of vapours leads to irritation of respiratory tract and mucous membranes, headache, nausea, dizziness, vomiting. Sensitisation possible through inhalation
Chronic Exposure	Health injuries are not known or expected under normal use.
Acute oral toxicity	LD50 200-2,000mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Classification	The classification was made by the conventional (calculation) method of Dangerous Preparations Directive(1999/45/EC)

12. Ecological information

Environmental Effects	No data available
Toxicity to fish	No data available
Toxicity to daphnia and others	No data available
Toxicity to algae	No data available
Biodegradability	> 60% (28 d)
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

13. Disposal considerations

Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

14. Transport information

Land transport (DOT)

UN Number	1760
Proper shipping name	Corrosive liquid, n.o.s.
Class	8
Packing Group	II
Remarks	Shipment Permitted
Hazardous Indoucer(S)	Quaternary ammonium chloride

ADR/ ADNR

UN Number	1760
Proper shipping name	Corrosive liquid, n.o.s.
Class	8
Packing Group	II
Remarks	Shipment Permitted
Hazardous Indoucer(S)	Quaternary ammonium chloride

IATA

UN Number	1760
Proper shipping name	Corrosive liquid, n.o.s.
Class	8
Packing Group	II
Remarks	Shipment Permitted
Hazardous Indoucer(S)	Quaternary ammonium chloride

International Maritime Dangerous Goods Code (IMDG) :

UN Number	1760
Proper shipping name	Corrosive liquid, n.o.s.
Class	8
Packing Group	II
Remarks	Shipment Permitted
Hazardous Indoucer(S)	Quaternary ammonium chloride

15. Regulatory information

Labelling in accordance with EC-Directives:	Hazardous symbols C Corrosive

R phrases	22 Harmful is swallowed 31 Contact with acids liberates toxic gas 34 Causes burns
S pharses	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 27 Take off immediately all contaminated clothing. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 60 This material and its container must be disposed of as hazardous waste.

HMIS

Health Hazard	: 2
Fire Hazard	: 2
Reactivity	: 0
Personal Protection	: H

Fire :

Health Hazard	: 2
Fire Hazard	: 2
Reactivity	: 0
Specific Hazard	: 0

16. Other information

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 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.

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