Material Safety Data Sheet

Antifreeze Agent (RXSOL-40-4014-020)

1. Product and Company Identifaction

Product Name	**RXSOL ANTIFREEZE LIQUID**
Product Type	Antifreeze Agent

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

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

CAS Number	EC Number	R Phrases*	Symbols
107-21-1	203-473-3	R-22	

*See Section 16

3. Hazards Identification



Toxic

3.1 Substance/Preparation Classification This preparation is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. This preparate requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xn
Phrases R: 22
3.2 Danger Identification

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
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
	Seek medical advice
Ingestion	Never give anything by mouth to an unconscious person
	Give plenty of water to drink
Inhalation	Vapours or aerosols may cause irritation of eyes, nose and respiratory tract
	Remove patient to fresh air
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

5. Fire-fighting Measures

- Non combustible
- Carbon oxides may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8
Environmental Precautions	No special precautions are required for this product
Immediate Actions	Shut off source of leak if safe to do so
Clean Up Actions	Absorb spillage in suitable inert material
	Flush spill area with copious amounts of water
Special Precautions	Wear protective clothing as per section 8

7. Handling and Storage

Handling	The usual precautions for handling chemicals should be observed
	Eyewash bottles should be available
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	There are no recommended or established controls for this product
Exposure controls	No special ventilation is required unless the product is used in a spray form
Occupational exposure controls	No respiratory protection is required unless subject to contact with substance mist
	Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)



Goggles



Respirator

9. Physical and chemical properties

- Odour: Slight Alcolic
- Appearance: Liquid, soluble in water
- pH 7.5 at 100 % concentration
- Boiling point -NA
- Vapour density- N.A
- Melting point - -36iC
- Completely soluble in water
- Specific gravity (water=1) 1.15
- Non combustible

10. Stability and reactivity

The product is stable in normal conditions of use and storage. Due to thermal decomposition or in the event of a fire vapours may be produced potentially dangerous to health. Ethylene glycol may absorb moisture from the atmosphere up to twice its own weight.

11. Toxicological information

Acute effects	ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea, etc.). This product may slightly irritate mucosas, the upper respiratory tract, eyes, and skin. Exposure symptoms
may include	sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.
Ethylene glycol	following ingestion it initially stimulates the CNS; later on depression results. Renal damage with anuria and uremia may occur. Symptoms of over exposure are: vomiting, somnolence, difficulty in breathing, convulsions. The lethal dose in man is approximately 1.4 l/kg. The route of entry is inhalation and ingestion.

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Ethylene glycol is biodegradable.

13. Disposal considerations

Consider the possibility of burning the product in a suitable inceneritor. Acid or basic products must always b e neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

15. Regulatory information

R-22 HARMFUL IF SWALLOWED Danger labelling under regulations 67/548/CEE and 1999/45/CE and following amendments and adjustments. Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/CE.

16. Other information

R22 HARMFUL IF SWALLOWED.

GENERAL BIBLIOGRAPHY

1 Regulation 1999/45/CE and following amendments;

2 Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXVIII);

3 Regulation 91/155/CEE and following amendments;

4 The Merck Index. - 10th Edition;

5 Handling Chemical Safety;

6 Niosh - Registry of Toxic Effects of Chemical Substances;

7 INRS - Fiche Toxicologique (toxicological sheet);

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