Material Safety Data Sheet

Coolant Premix Redcool (RXSOL-40-4043-025)

1. Product and Company Identifaction

Product Name	RXSOL-40-4043-025
Product Type	Redcool (Premix Coolant)

Company Details:

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

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

2. Composition / informationon ingredients

Ethylene glycol solution. Corrosion inhibitor. This product also contains approximately 10 ppm of bittering agent, denatonium benzoate.

Ingredient name	CAS no.	%
Ethyleneglycol ethanediol	107-21-1	50-100

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

3. Hazards Identification

Statement of hazardous/dangerous nature:HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Risk phrases:R22- Harmful if swallowed.

Safety phrases:S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

4. First Aid Measures

Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Inhalation:	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed,call a physician immediately.

5. Fire-fighting Measures

Extinguishing media Suitable: In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisheror spray.

Not suitable: Do not use water jet.

Hazardous decomposition products: Decomposition products may include the following materials:carbon dioxide carbon monoxide

Unusual fire/explosion hazards: This material is not explosive as defined by established regulatory criteria.

Special fire-fighting procedures: None identified.

Protection of fire-fighters: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble or absorb with an inert dry material and place in an appropriate waste disposal container.Dispose of via a licensed waste disposal contractor.

7. Handling and Storage

Handling : Do not ingest. Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls and personal protection

Ingredient name : Ethylene glycol; ethanediol

Occupational exposure limits : Safe Work Australia (Australia). Absorbed through skin.
TWA: 10 mg/m³ 8 hour(s). Issued/Revised: 8/2005 Form: Particulate
TWA: 52 mg/m³ 8 hour(s). Issued/Revised: 8/2005 Form: Vapor
TWA: 20 ppm 8 hour(s). Issued/Revised: 8/2005 Form: Vapor
STEL: 104 mg/m³ 15 minute(s). Issued/Revised: 8/2005 Form: Vapor
STEL: 40 ppm 15 minute(s). Issued/Revised: 8/2005 Form: Vapor

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapour or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Biological Limit Values : No biological limit allocated.

Exposure controls:

Occupational exposure controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protective equipment Respiratory protection : Avoid breathing of vapours, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure level.

Skin and body : None required; however, use of protective clothing is good industrial practice.

Hand protection : Wear gloves that cannot be penetrated by chemicals or oil. Recommended : Butyl gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vry, safety procedures should be developed for each intended application. Gloves should therefore bechosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection : Safety glasses with side shields.

9. Physical and chemical properties

Physical state	Liquid.
Colour	Green.
Odour	Mild
Flash point	Water content interferes with flash point determination.
Vapour pressure	0.013 kPa (0.1 mm Hg) at 20°C
Vapour density	Not available.
pH	8 [Conc. (% w/w): 33%]
Boiling point / range	120°C
Melting point / range	Not available.
Relative density/Specific gravity	Not available.
Density	1.05 - 1.09
Solubility	Soluble in water.

10. Stability and reactivity

Stability	The product is stable.
Conditions to avoid	Avoid extreme temperatures, strong oxidizers, fire.
Incompatibility withvarious substances/Hazardous Reactions	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition	Decomposition products may include the following materials:carbon dioxide carbon monoxide

11. Toxicological information

Effects and symptoms

Eyes	No significant health hazards identified
Skin	No significant health hazards identified
Inhalation	No significant health hazards identified
Ingestion	Harmful if swallowed.
Chronic toxicity	
Carcinogenic effects	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health add Safety Commission (Australia).
Mutagenic effects	No known significant effects or critical hazards.

12. Ecological information

Ecotoxicity : Not classified as environmentally hazardous in accordance with the ‘Approved Criteria for Classifying Hazardous Substances’ [NOHSC (1008)/2004 as amended and adapted].

Biodegradability:

Persistence/degradability : The biodegradability of this material has not been determined.

13. Disposal considerations

Disposal considerations/Waste information : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-

recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration : No additional special precautions identified.

14. Transport information

International transport regulations : Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user : No known special precautions required. See Section: "Handling and storage" for additional information

15. Regulatory information

Control of Scheduled Carcinogenic Substances Ingredient name Schedule : No Listed Substance

Australia Regulations : Labelling requirements for SUSDP do not apply to a poison that is packed and sold solely for industrial, laboratory or manufacturing use. However, this product is labelled in accordance with NOSHC National Code of Practice for labelling of workplace substances.

Europe inventory : Not determined.

United States inventory : Not determined.
(TSCA 8b)

Australia inventory (AICS) : All components are listed or exempted.

Canada inventory : Not determined.

China inventory (IECSC) : Not determined.

Japan inventory (ENCS) : Not determined.

Korea inventory (KECI) : Not determined.

Philippines inventory : Not determined.
(PICCS)

16. Other information

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The RX Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure toadhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.