

1. Product and Company Identification

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Product Name : Coolant Green RXSOL G 93-94
Product Type : COOLANT CONCENTRATE Anticorrosive

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*	Symptoms
Ethlene Glycol	30-35%	107-21-1	203-473-3	R-22	603
Potassium 2-Ethylhexanoate	15-20%	3164-85-0	221-625-7	R-63	
Mixture of silicates, borates and phosphates	10-20%	Proprietary Blend	Proprietary Blend	NA	NA

BenzoTriazole 1- 10% 1310-58-3 215-181-3

*See Section 16

3. Hazards Identification

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Harmful if swallowed.
Possible risk of harm to the unborn child.

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.
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes. Seek medical advice if necessary.
Ingestion	Never give anything by mouth to an unconscious person. Give plenty of water to drink. Seek medical advice if necessary.
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

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

6. Accidental Release Measures

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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

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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

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Exposure Limits	<p>TWA value 52 mg/m³ ; 20 ppm (OEL (EU))</p> <p>STEL value 104 mg/m³ ; 40 ppm (OEL (EU))</p> <p>Skin Designation (OEL (EU))</p> <p>The substance can be absorbed through the skin.</p> <p>TWA value 10 mg/m³ (EH40 (UK))</p> <p>TWA value 52 mg/m³ ; 20 ppm (EH40 (UK))</p> <p>STEL value 104 mg/m³ ; 40 ppm (EH40 (UK))</p> <p>Skin Designation (EH40 (UK))</p> <p>The substance can be absorbed through the skin.</p> <p>Skin Designation (EH40 (UK))</p> <p>The substance can be absorbed through the skin.</p>
Exposure controls	<p>Personal protective equipment:</p> <p>Respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).</p> <p>Hand protection:</p> <p>Chemical resistant protective gloves (EN 374) Suitable materials short-term contact and/or splashes (recommended: A index 2, corresponding > 30 minutes of permeation time according to EN 374) butyl rubber (butyl) - 0.7 mm coating thickness</p> <p>Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the permeation time of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Manufacturer's directions for use should be observed for all types.</p> <p>Eye protection:</p> <p>Safety glasses with side-shields (frame goggles) (EN 166)</p> <p>Body protection:</p> <p>Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical protective clothing (according to DIN-EN 465).</p> <p>General safety and hygiene measures:</p> <p>Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.</p>
Occupational exposure controls	<p>No respiratory protection is required unless subject to contact with substance mist. Wear suitable protective clothing, if necessary, and gloves (plastic or rubber are recommended)</p>

9. Physical and chemical properties

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Odour	Specific
Appearance	Green Color, Liquid, soluble in water
pH	9.50 at 100 % concentration
Boiling point	NA
Vapour density	N.A

Melting point	36°C
Completely soluble in water	
Specific gravity (water=1)	1.092 - 1.095
Non combustible	

10. Stability and reactivity

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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

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

12. Ecological information

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Ecotoxicity	
Toxicity to fish : <i>Leuciscus idus</i> /LC50 (96 h): > 100 mg/l	
Microorganisms/Effect on activated sludge: <i>Pseudomonas putida</i> /EC10: > 100 mg/l	
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Persistence and degradability	
Elimination information	
Test method: OECD 302B; ISO 9888; 88/302/EEC, part C	
Method of analysis: DOC reduction	
Degree of elimination: > 70 %	
Evaluation: Easily eliminated from water.	
Other adverse effects	
Adsorbable organically-bound halogen (AOX):	
This product contains no organically-bound halogen.	
Additional information	
Other ecotoxicological advice : Do not release untreated into natural waters.	

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

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Consider the possibility of burning the product in a suitable incinerator. Acid or basic products must always be 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

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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

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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. R63 Possible risk of harm to the environment.

unborn child. S2 Keep out of the reach of children. S36/37 Wear suitable protective clothing and gloves.

16. Other information

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Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2: Xn Harmful. 22 Harmful if swallowed. 63 Possible risk of harm to the aquatic environment. Vertical lines in the left hand margin indicate an amendment from the previous version. If you have any queries relating to this MSDS, its contents or safety related questions, please write to the following e-mail address: mail@rxmarine.com.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. It does not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be inferred from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are complied with.

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