Material Safety Data Sheet

GlycoCool G148 SC (RXSOL-27-1222-030)

1. Product and Company Identifaction

Product Name	:	GlycoCool G148 SC
Part Number	:	RXSOL-27-1222-030

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbol
Ethylene Glycol	30-35%	107-21-1	203-473-3	R-22	603-027-00-1
Potassium 2-Ethylhexanoate	15-20%	3164-85-0	221-625-7	R-63	NA
Mixture of silicates, borates and phosphates	10-20%	Proprietoy Blend	Proprietoy Blend	NA	NA
BenzoTriazole	1-10%	1310-58-3	15-181-3	NA	NA

*See Section 16

3. Hazards Identification

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

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. 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

- 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	TWA value 52 mg/m3 ; 20 ppm (OEL (EU)) STEL value 104 mg/m3 ; 40 ppm (OEL (EU)) Skin Designation (OEL (EU)) The substance can be absorbed through the skin. TWA value 10 mg/m3 (EH40 (UK)) TWA value 52 mg/m3 ; 20 ppm (EH40 (UK)) STEL value 104 mg/m3 ; 40 ppm (EH40 (UK)) Skin Designation (EH40 (UK)) The substance can be absorbed through the skin. Skin Designation (EH40 (UK)) The substance can be absorbed through the skin.

Exposure controls	Personal protective equipment: 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). Hand protection: Chemical resistant protective gloves (EN 374) Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374) butyl rubber (butyl) - 0.7 mm coating thickness. Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage 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 because of great diversity of types. Eye protection: Safety glasses with side-shields (frame goggles) (EN 166) Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465). General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.
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

9. Physical and chemical properties

Odour	Specific
Appearance	Blue/Green Color, Liquid, soluble in water
pH	9.50 at 100 % concentration
Boiling point	NA
Vapour density	N.A
Melting point	36iC
Completely soluble in water	
Specific gravity (water=1)	1.092 - 1.095
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

Ecotoxicity
Toxicity to fish : Leuciscus idus/LC50 (96 h): > 100 mg/l
Microorganisms/Effect on activated sludge: Pseudomonas putida/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

Consider the possibility of burning the product in a suitable inceneritor. 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

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. R63 Possible risk of harm to the unborn child. S2 Keep out of the reach of children. S36/37 Wear suitable protective clothing and gloves.

16. Other information

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 unborn child. Vertical lines in the left hand margin indicate an amendment from the previous version. If you have any queries relating to this MSDS, it's contents or any other product safety related questions, please write to the following e-mail address :mail@rxmarine.com/ .

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