Material Safety Data Sheet

Anti Freeze RXSOL PROCOOL 50/50 (RXSOL-40-4041-210)

1. Product and Company Identifaction

Product Name	**RXSOL-40-4041-210**
Product Type	**Rxsol PROCOOL 50/50**

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

Components	Cas Number	Wt %
Benzotriazole	-	5 - 10 % Weight
Propylene Glycol	57-55-6	50 % Weight
Potassium 2-Ethylhexanoate	3164 - 85 - 0	1 - 3 % Weight

3. Hazards Identification

Emergency Overview
- May be harmful or fatal if swallowed
- Harmful or harmful or fatal if swallowed
- Causes eye irritation
- Contains material that may cause adverse reproductive effects based on animal data- Possible birth defect hazard
- contains material that may cause birth defects based on animal data
- May cause damage to
- Kindney

IMMEDIATE HEALTH EFFECTS
Eye: Conntact with the eyes cauases irrition. m.Symptoms may incude pain,tearing swelling and impaired vision.
SKIN:- Contect with the skin is not expected to cause prolonged or significants irrition. Not expeccted to be Harrmful to internal orgens if through the skin.
Inggestion :Toxic ,may be harmful or fatal if swallowed
Inhaltion:-Thevapor or fumes from this material may cause respairation irritation .Symptoms of concentration above the recommended exposure limits may cause entral nervous system effects . Central nervous system effects may enclude headache , dizziness , nausea,nausea,vomiting ,weakness,loss of coordination, blurred vision,drowsiness,confusion ,or disorientation. At extrem exposures, central nervos system effects may incude respiratory despression .loss of consciousness , coma or death

DELAYED OR OTHER HEALTH EFFECTS
Reproduction and Birth Defects :-Contans material that may cause adverse reprodective effects based on animal data . Contain material that

may be harmfull to the devaloping fetus based on animals data.

Target Orgens:-Contains materials that may cause Dmege to the following orgen (s) follwing repeated ingestion based on animal data : Kidney Sea Section 11 for additional informartion . Risk Depends and level of exposure .

4. First Aid Measures

Eye:-Flush eyes with water immedietely while white holding the eyelids open. Remove contect lenses , if worn ,after initial fluyshing , and contineue flushing for at least 15 minutes . Get medical attention if irritation persists.
Skin:=To remove the material from skin , use soap and water . discard contaminated clothing and shoes or throghly clean before reuse.
Ingestion :-If swallowed ,get immediete medical attention .Do not induce vominting Never given any thing By mouth an unconscious persion .
Inhalation:-Move the exposed persons to fresh air .if not bresthing ,given artifical respirration .if breathing is diffcult, give oxygen. get medical attention if breathing dificultes continue.

5. Fire-fighting Measures

FIRE CLASSIFICATION:
OSHA CLASSFICATION (29 CFR 1910.1200):Not classified by OSHA as mlammable or combustible.
NEPA RATINGS : Health : 2 Flammability : 0 Reactivity : 0
Flammable Properties :
Flashpoint : NA
Aotoignition : NDA
Flammability (Explosive) Limits (% by vollume in air) : Lower : NA Upper : NA
EXTINGUSISHING MEDIA : dry Chemical, Co2,AFFF From or acohol resistants From
PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructons: For Fires Invoiling This material,do not enter any enclosed or confiened fire
space without proper protective equipment , including self - containedbreathing apparatus.
Combustion Products :Highly dependent on combution condition , Acomplex mixture of airbrone solids,liquids.and gases including carbon monoxide,
and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of Potassium.

6. Accidental Release Measures

Spill Management	Stop the source of the release if you can do it with out risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precaution in Exposure Controls / Personal Protection. Use appropriate techniques such as applying non-combustible materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting	Report spills to local authorities and / or the U.S. Cost Guard's National Response Center at (800) 424 - 8802 as appropriate or required.

7. Handling and Storage

Precautionary Measures	Do not get in eyes.Do not taste or swallow. Wash thoroughly after handling. Do not breathe vapor or fumes.
General Handling Information	Do not taste or swallow antifreeze or solution. Keep out of the reach of childrean and animals.
General Storage Information	Do not store in open or unlabeled containers.

Container Warnings	Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and / or vapor) and can be dangerous. Donot pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be compltely drained, properly closed, and promptlyreturned to a drum reconditioner or disposed of properly.

8. Exposure controls and personal protection

General Considerations	Consider the potential hazareds of this material (see Section, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to controls to control airborne levels below the recommended exposure limits.
Personal Protective Equipment	**Eye / Face Protection :** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted. **Skin Protection :** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace Suggested materials for protective gloves include : Naturl rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl). **Respiratory Protection** : Determine if airborne concentrations are below the recommended exposure limits. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material, such as : Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits :

Component	Limit	TWA	STEL	Ceiling	Notation
Ethylene Glycol	ACGIH - TLV			100 mg / m^3	
Ethylene Glycol	OSHA - PEL			125 mg / m^3	
Ethylene Glycol	ACGIH			39.4 ppm (weight)	

9. Physical and chemical properties

Attention : The data below are typical values and do not constitute a specification.

Color	Custom
Physical State	Liquid
Odor	NDA
pH	8.1 - 8.9
Vapor Pressure	NDA

Vapor Density (Air = 1)	2.1
Boiling Point	228 ^{0}F (109 C)
Solubility	Miscible
Freezing Point	-34 ^{0}F (-37 C)
Melting Point	NDA
Specific Gravity	1 - 1.5 @ 15.6 ^{0}C
Viscosity	20 cSt @ 40 ^{0}C

10. Stability and reactivity

Chemical Stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibilty With Other Materials	May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous Decomposition Products	Aldehydes (Elevated temperatures)
Hazardous Polymerization	Hazardous polymerization will not occur.

11. Toxicological information

Immediate Health Effects

Eye Irritation	The eye irritation hazard is based on evaluation of data for similar materials or product componets.
Skim Irritation	The skin irritation hazard is based on evaluation of data for similar materials or product componets.
Skin Sensitization	No product toxicology data available.
Acute Dermal Toxicity	The acute dermal toxicity hazard is based on evaluation of data for similar materials or product componets.
Acute Oral Toxicity	The acute oral toxicity hazard is based on evaluation of data for similar materials or product componets.
Acute Inhalation Toxicity	The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product componets.

12. Ecological information

Ecotoxicity	The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water
Environmental Fate	This material is expected to be readily biodegradable.

13. Disposal considerations

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

14. Transport information

The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate Dangerous Goods Regulations (e. g. technical name) and modespecific or quantity-specific shipping requirements.

Dot Shipping Name	Not regulated as a hazardous material for transportation under 49 CFR
Dot Hazard Class	Not applicable
Dot Identification Number	Not applicable
Dot Packing Group	Not applicable

15. Regulatory information

Sara 311 / 312 Categories

Immediate (Acute) Health Effects	Yes
Delayed (Chronic) Health Effects	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactivity	No

Regulatory Lists Searched :

4 = 11 = IARC Group 1
4 =12 A = IARC Group 2A
4 _=12 B = IARC Group 2B
05 = NTP Carcinogen
06 = OSHA Carcinogen
09 = TSCA 12 (b)
15 = SARA Section 313
16 = CA Proposition 65
17 = MA RTK
18 = NJ RTK
19 = DOT Marine Pollutant
20 = PA RTK

The following components of this material are found on the regulatory lists indicated.

Propylene Glycol 15, 17, 18, 20

Chemical Inventories :
Canada : One or more components of this product are not on the Domestic Substances List (DSL). Volume tracking or notification by the Canadian Importer of Record may be required.
European Union : All the components of this material are in compliance with the EU Seventh Amendment Directive 92 / 32 / EEC

United States : All of the componets of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.
New Jersey RTK Classification :
Refer to components listed in Section 2.
WHMIS Classification :
Class D, Division 1, Subdivision B : Toxic Material -
Acute Lethality
Class D, Division 2, Subdivision A : Very Toxic Material -
Chronic Toxic Effects
Teratogenicity and Embryotoxicity
Reproductive Toxicity
Class D, Division 2, Subdivision B : Toxic Material -

Chronic Toxic Effects
Skin or Eye Irritation

16. Other information

NFPA RATINGS : Health : 2 Flammability : 0 Reactivity : 0
HMIS RATINGS : Health : 2 Flammability : 0 Reactivity : 0
(0 - Least, 1- Slight, 2 - Moderate, 3 - High, 4 - Extreme, PPE : - Personal Protection Equipment Index recommendation, - Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings)
Revision Statement : This revision updates the following sections of this Material Safety Data Sheet : 1, 2, 3, 15

Abbreviations That May Have Been Used In This Document :

TLV	Threshold Limit Value	TWA	Time Weighted Average
STEL	Short-terms Exposure Limit	PEL	Permissible Exposure Limit
		CAS	Chemical Abstract Service Number
NDA	No Data Available	NA	Not Applicable
=	Less Than or Equal To	>=	Greater Than or Equal To

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