

## 1. Product and Company Identification

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Product Name Propylene Glycol  
Part Number RXSOL-95-1586-025

### Company Details:

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
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## 2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight	Formula
Propylene glycol	57-55-6	200-338-0	76,09 g/mol	C3H8O2

## 3. Hazards Identification

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Signal Word: No data available.  
Hazard Statements: No data available.  
Precautionary statements: No data available.  
Classification of the substance or mixture: No data available.  
Supplemental Hazard Statements: No data available.  
Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 4. First Aid Measures

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General advice: Show this material safety data sheet to the doctor in attendance.  
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
Eye Contact: Flush eyes with water as a precaution.  
Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.  
Skin Contact: Wash off with soap and plenty of water.  
Inhalation: No data available.  
Ingestion: No data available.  
Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling  
Indication of any immediate medical attention and special treatment needed: No data available.

## 5. Fire-fighting Measures

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Flammability:	No data available.
Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture:	Carbon oxides.
Further information:	No data available.
Hazardous combustion products:	No data available.
Advice for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Protective Equipment:	No data available.
Specific Hazards Arising from the Chemical:	No data available.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures:	Avoid breathing vapors, mist or gas. For personal protection see section 8.
Spillage:	No data available.
Personal Protection:	No data available.
Environmental Precaution:	No special environmental precautions required.
Methods and materials for containment and cleaning:	Keep in suitable, closed containers for disposal.
Reference to other sections:	For disposal see section 13.

## 7. Handling and Storage

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Advice on protection against fire and explosion:	No data available.
Incompatible materials:	No data available.
Hygiene measures:	No data available.
Advice on safe handling:	From precautions section.
Conditions for safe storage including any incompatibilities:	No data available.
Storage conditions:	Keep container tightly closed in a dry and well-ventilated place. Store in cool place. hygroscopic.
Storage class:	Storage class (TRGS 510) 10 Combustible liquids.
Specific end use(s):	Apart from the uses mentioned no other specific uses are stipulated.
Advice on general occupational hygiene:	No data available.

## 8. Exposure controls and personal protection

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Exposure controls:	Personal protective equipment.
Engineering Control:	No data available.
Eye/face protection:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Body Protection:	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
Respiratory protection:	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other Protection Measure:

No data available.

## 9. Physical and chemical properties

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Physical state	Liquid
Colour	Colorless
Odour	Weak characteristic odour
Odor Threshold	No data available
pH	No data available
Melting Point	-60 °C - lit
Boiling Point	187 °C - lit
Flash Point	103 °C - closed cup
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data Available
Upper/lower flammability or explosive limits	Upper explosion limit 12,5 %(V) Lower explosion limit 2,6 %(V)
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	0,11 hPa at 20 °C
Viscosity	No data available
Density	1,036 g/cm <sup>3</sup> at 25 °C - lit
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	Log Pow -0,8 at 25 °C
Explosive properties	No data available
Solubility	at 25 °C soluble
Ignition temperature	No data available
Particle characteristics	No data available

## 10. Stability and reactivity

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Reactivity:	No data available.
Chemical stability:	The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents.
Hazardous decomposition products:	In the event of fire: see section 5

## 11. Toxicological information

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Acute toxicity	LD50 Oral - Rat - male and female - 22.000 mg/kg (ECHA) LD50 Dermal - Rabbit - > 2.000 mg/kg (ECHA).
Skin corrosion/irritation	Skin - Rabbit No skin irritation - 4 h (OECD Test Guideline 404).
Serious eye damage/irritation	Eyes - Rabbit No eye irritation (OECD Test Guideline 405).
Respiratory or skin sensitization	Maximization Test - Guinea pig negative (OECD Test Guideline 406).
Carcinogenicity	No data available.

Germ cell mutagenicity	Test Type Chromosome aberration test in vitro Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: Ames test Test system: S. typhimurium Metabolic activation: with and without metabolic activation negative (ECHA) Test Type: Micronucleus test Species Mouse Cell type Bone marrow Application Route: Intraperitoneal Result negative (ECHA) Test Type Chromosome aberration test in vitro Species: Rat Cell type: Bone marrow Application Route: Oral Result: negative (ECHA) Test Type: dominant lethal test Species: Rat Application Route Oral Result: negative (ECHA).
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Additional Information	Repeated dose toxicity - Rat -male - Oral - 2 yr - NOAEL (No observed adverse effect level) - 1.700 mg/kg Remarks: (ECHA) RTECS: TY2000000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

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Persistence and degradability:	Biodegradability aerobic Dissolved organic carbon (DOC)-Exposure time 28d Result: 98,3%-Readily biodegradable. (OECD Test Guideline 301F).
Toxicity to fish:	Static test LC50 - Oncorhynchus mykiss (rainbow trout) 40.613 mg/l - 96 h (ECHA).
Toxicity to daphnia and other aquatic invertebrates:	Static test LC50 - Ceriodaphnia dubia (water flea)-18.340 mg/l - 48 h (US-EPA).
Toxicity:	No data available.
Toxicity to bacteria:	NOEC-Pseudomonas putida - > 20.000 mg/l -18 h (ECHA).
Toxicity to algae:	Static test LC50 - Ceriodaphnia dubia (water flea) - 18.340 mg/l - 48 h (US-EPA).
Products Biodegradation:	No data available.
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Endocrine disrupting properties:	No data available.
Other adverse effects:	Biological effects: When discharged properly, no impairments in the function of adapted biological wastewater treatment plants are to be expected. Stability in water - 2,3 yr Remarks: reaction with hydroxyl radicals(IUCLID).

## 13. Disposal considerations

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Product:	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging:	Dispose of as unused product.
Waste treatment Method:	No data available.

## 14. Transport information

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UN number	ADR/RID IMDG IATA
UN proper shipping name	ADR/RID:Not dangerous goods IMDG:Not dangerous goods

Transport hazard class(es)	IATA:Not dangerous goods
Packaging group	ADR/RI IMDG IATA
Environmental hazards	ADR/RID IMDG IATA
Special precautions for user	ADR/RID:No IMDG:No IATA:No
Further information	No data available.

## 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture:	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations:	No data available.
Chemical Safety Assessment:	A Chemical Safety Assessment was not carried out for this substance.

## 16. Other information

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Other Information	<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, how so ever arising, even if Rx Marine International has been advised of the possibility of such damages.</p> <p><b>DISCLAIMER OF LIABILITY</b> :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.</p>
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