

1. Product and Company Identification

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Product Name Mono Propylene Glycol USP/IND
Part Number RXSOL-95-1586-215

Company Details:

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

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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	C ₃ H ₈ O ₂

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 delaye	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
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	For precautions see section 2.2.
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 in section 1.2 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash

and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Aldrich-W294004 Page 4 of 9 The life science business of Merck operates as MilliporeSigma in the US and Canada Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use

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 ³ 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 28 d 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 IATA:Not dangerous goods
Transport hazard class(es)	ADR/RID:- IMDG:- IATA:-
Packaging group	ADR/RID:- IMDG: - IATA:-
Environmental hazards	ADR/RID:No IMDG Marine pollutant:No IATA:No
Special precautions for user	No data available
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, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p>
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