

Product Name: Polyethylene Glycol 400 PEG 400

Part No / SKU: RXSOL-81-8123-200

Date of Issue: September 11, 2026

Document Type: Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Polyethylene Glycol 400
Part Number	1546445

Company Details:
RX MARINE INTERNATIONAL
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances	
Formula Substances Formula Substances Formula	(C2H4O)nH2O
CAS-No.	(C2H4O)nH2O
EC-No.	500-038-2

No components need to be disclosed according to the applicable regulations.

3. HAZARDS IDENTIFICATION

Classification of the substance or mixture	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Label elements	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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

General advice	General advice :First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
Inhalation	If inhaled After inhalation: fresh air.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Eye Contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
After swallowing	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms/effects, acute and delayed	The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water Foam Carbon dioxide (CO2) Dry powder.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Nature of decomposition products not known. Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
Further Information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.For personal protection see section 8.
Environmental Precautions	Do not let product enter drains.
Methods and material for containment and cleaning up	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
Reference to other sections	For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling	For precautions see section 3.
Conditions for safe storage including any incompatibilities	Storage conditions Tightly closed. Dry. Storage class Storage class (TRGS 510): 11: Combustible Solids.
Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	Ingredients with workplace control parameters
Personal protective equipment	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. Skin protection: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm US Pharmacopeia- 1546445 Page 4 of 8 The life science business of Merck operates as MilliporeSigma in the US and Canada Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Respiratory protection: Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental :Exposure Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid.
Colour	Light yellow.
Odour	No data available.
Odor Threshold	No data available.
pH	No data available.
Melting Point/Freezing Point	Melting point/range: 57,5 °C.
Initial Boiling Point and Boiling Range	205,7 °C at 977,6 hPa - OECD Test Guideline 103.
Flash Point	138,6 °C - closed cup.
Evaporation	No data available.
Flammability (solid,gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	0,01 hPa at 20 °C.
Vapor density	No data available.
Density	1,116 g/cm ³ at 20 °C at 975,5 hPa - OECD Test Guideline 109.
Relative density	No data available.
Water solubility	256,084 g/l at 25 °C - OECD Test Guideline 105- completely soluble.
Partition coefficient n-octanol/water	log Pow: -0,698 at 30 °C - Bioaccumulation is not expected.
Autoignition temperature	360 °C. Autoignition temperature Autoignition temperature
Decomposition temperature	No data available.
Viscosity Viscosity, kinematic	No data available.
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidizing properties	None.
Other safety information	No data available.

10. STABILITY AND REACTIVITY

Reactivity	Forms explosive mixtures with air on intense heating.A range from approx. 15 Kelvin below the flash point is to be rated as critical.The following applies in general to flammable organic substances and mixtures:in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Strong heating.
Incompatible Materials	Strong acids, Strong bases, Strong oxidizing agents.
Hazardous decomposition products	In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423) Inhalation: No data available LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402).
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 72 h US Pharmacopeia- 1546445 Page 6 of 8 The life science business of Merck operates as MilliporeSigma in the US and Canada (OECD Test Guideline 404).
Serious eye damage/eye irritation	Eyes - Rabbit Result: No eye irritation - 24 h (OECD Test Guideline 405).
Respiratory or skin sensitization	Maximization Test - Guinea pig Result: Not a skin sensitizer. Remarks: (Lit.) (ECHA).
Germ cell mutagenicity	est Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activationMethod: OECD Test Guideline 476 Result: negative.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.
Mixture	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Endocrine disrupting properties:Product: Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 8.000 mg/kg - LOAEL (Lowest observed adverse effect level) - 16.000 mg/kg Remarks: (ECHA) To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity	Toxicity to fish static test LC50 - Poecilia reticulata (guppy) - > 100 mg/l - 96 h US Pharmacopeia- 1546445 Page 7 of 8 The life science business of Merck operates as MilliporeSigma in the US and Canada (OECD Test Guideline 203). Toxicity to daphnia and other aquatic invertebrates:static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202) (OECD Test Guideline 202). Toxicity to daphnia and other aquatic invertebrates
Persistence and degradability	Biodegradability aerobic - Exposure time 28 d Result: 74,85 % - Readily biodegradable. (OECD Test Guideline 301D)
Bioaccumulative potential	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	Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	Product:See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
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14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	-	-	-
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)	-	-	-
Packaging group	-	-	-
Environmental hazards	No	No	No

15. REGULATORY INFORMATION

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.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION AND DISCLAIMER

Other Information	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. DISCLAIMER OF LIABILITY : 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.
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