

1. Product and Company Identification

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Product Name Polyethylene Glycol 400
Part Number 1546445

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substances

Formula $(C_2H_4O)_nH_2O$

Substances

Formula Substances

Formula

CAS-No. $(C_2H_4O)_nH_2O$

EC-No. 500-038-2

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

3. Hazards Identification

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Classification of the substance or mixture

Not a hazardous substance or mixture according to Reg

Not a hazardous substance or mixture according to Reg

Not a hazardous substance or mixture according to Reg

Label elements

Not a hazardous substance or mixture according to Reg

Other hazards

This substance/mixture contains no components cons
and toxic (PBT), or very persistent and very bioaccum

4. First Aid Measures

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General advice

General advice :First aiders need to protect themselves

Inhalation	doctor in attendance.
Skin Contact	If inhaled After inhalation: fresh air. In case of skin contact: Take off immediately all clothing and shower.
Eye Contact	After eye contact: rinse out with plenty of water. Remove contaminated clothing.
After swallowing	After swallowing: make victim drink water (two glasses).
Most important symptoms/effects, acute and delayed	The most important known symptoms and effects are listed in section 11
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

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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

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Personal precautions, protective equipment and emergency procedures.	Advice for non-emergency personnel: Avoid inhalation. In case of 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 local regulations (e.g. sections 9 and 10). Take up dry. Dispose of properly. Clean up as soon as possible.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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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. Apart from the uses mentioned in section 1 no other special uses are known.
Specific end use(s)	

8. Exposure controls and personal protection

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Control parameters	Ingredients with workplace control parameters
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Skin protection: This recommendation applies only for the use of the product supplied by us and for the designated use. When used under conditions deviating from those stated in EN377, gloves (e.g. KCL GmbH, D-36124 Eichenzell, Intertec) must be worn. Minimum layer thickness: 0,11 mm US Pharmacopeia. The business of Merck operates as MilliporeSigma in the USA. Material tested: KCL 741 Dermatrill® L. Splash container. Minimum thickness: 0,11 mm Break through time: 480 min Material

Respiratory protection: Required when dusts are generated. The respiratory protection is based on the following standards: EN 12167 accompanying standards relating to the used respirator. Filter type P1 The entrepreneur has to ensure that the protective devices are carried out according to the instructions to be properly documented.

Control of environmental :Exposure Do not let product

9. Physical and chemical properties

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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
	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

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Reactivity

Forms explosive mixtures with air on intense heating. A

Chemical stability

15 Kelvin below the flash point is to be rated as o
flammable organic substances and mixtures: in correspo
dust explosion potential may generally be assumed.

Possibility of hazardous reactions

The product is chemically stable under standard ambient

Conditions to Avoid

No data available.

Incompatible Materials

Strong heating.

Hazardous decomposition products

Strong acids, Strong bases, Strong oxidizing agents.

In the event of fire: see section 5.

11. Toxicological information

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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

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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 activation Method: OECD Test Guideline 476

Result: negative.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity - No data available.

repeated exposure	
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 properties:Product:	disrupting The substance/mixture does not contain components considered to have endocrine disrupting properties according to F 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Assessment	Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 8.000 mg/kg (Lowest observed adverse effect level) - 16.000 mg/kg Remarks: (ECHA) To the best of our knowledge, the chemical and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Toxicity	<p>Toxicity to fish static test LC50 - Poecilia reticulata (guppy)</p> <p>US Pharmacopeia- 1546445 Page 7 of 8</p> <p>The life science business of Merck operates as MilliporeSigma</p> <p>Canada</p> <p>(OECD Test Guideline 203).</p> <p>Toxicity to daphnia</p> <p>and other aquatic</p> <p>invertebrates:static test EC50 - Daphnia magna (Water flea)</p> <p>(OECD Test Guideline 202)</p> <p>(OECD Test Guideline 202).</p> <p>Toxicity to daphnia</p> <p>and other aquatic</p> <p>invertebrates</p>
Persistence and degradability	<p>Biodegradability</p> <p>aerobic - Exposure time 28 d</p> <p>Result: 74,85 % - Readily biodegradable.</p> <p>(OECD Test Guideline 301D)</p>
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	<p>This substance/mixture contains no components considered to be bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB), at levels of 0.1% or higher.</p> <p>Product:</p> <p>Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties</p>
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

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Waste treatment methods	Product: See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us for further questions.
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14. Transport information

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	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

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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 the relevant regulations/legislation.
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out.

16. Other information

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Other Information

The information above is believed to be accurate and reliable. However, we make no warranty of accuracy or reliability, implied, with respect to such information, and we should make their own investigations to determine its suitability for particular purposes. In no event shall we be liable for any damages, including but not limited to, for lost profits or any special, indirect, incidental, or consequential damages, arising, even if **Rx Marine International** has been advised of the possibility of such damages.

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