

## 1. Product and Company Identification

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Product Name DI Ethylene Glycol  
Part Number RXSOL-81-1126-250

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Weight	Formula
Diethylene glycol	111-46-6	203-872-2	106,12 g/mol	C <sub>4</sub> H <sub>10</sub> O <sub>3</sub>

## 3. Hazards Identification

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Signal Word	Warning
Hazard Statements	H302 Harmful if swallowed
Precautionary statements	P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P501 Dispose of contents/ container to an approved waste disposal plant.
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. 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.

## 4. First Aid Measures

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General advice	Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalation fresh air.
Eye Contact	Rinse out with plenty of water. Remove contact lenses
Swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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 (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	Water Foam Carbon dioxide (CO <sub>2</sub> ) Dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Sigma-Aldrich- H26456 Page 4 of 13 The life science business of Merck operates as MilliporeSigma in the US and Canada Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	Cool containers/tanks with water spray.Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	No data available
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.
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	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Do not let product enter drains. Risk of explosion.
Methods and materials for containment and cleaning	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area
Reference to other sections	For disposal see section 13

## 7. Handling and Storage

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Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge.
Incompatible materials	No data available
Hygiene measures	No data available
Advice on safe handling	No data available
Conditions for safe storage, including any incompatibilities	No data available
Storage conditions	Tightly closed. hygroscopic Heat sensitive. Store under inert gas.
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  
Engineering Control  
Eye/face protection

Body Protection  
Skin protection

Respiratory protection

Other Protection Measure

Personal protective equipment  
No data available

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Protective clothing

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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds 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.

No data available

## 9. Physical and chemical properties

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Physical state  
Colour  
Odour  
Odor Threshold  
pH  
Melting Point  
Boiling Point  
Flash Point  
Evaporation Rate  
Flammability (solid, gas)  
Explosive limits  
Upper/lower flammability or explosive limits  
Autoignition temperature  
Decomposition temperature  
Vapour pressure  
Viscosity  
Density  
Relative Density  
Specific Gravity  
Partition coefficient  
Explosive properties  
Solubility  
Ignition temperature  
Particle characteristics

Viscous liquid  
Colorless  
Odorless  
No data available  
6 - 8 at 200 g/l at 20 °C  
-10 °C - lit.  
245 °C - lit.  
138 °C - closed cup  
No data available  
Upper explosion limit 37 %(V) Lower explosion limit 1,7 %(V)  
No data available  
No data available  
372 °C at 1.013,25 hPa  
Distillable in an undecomposed state at normal pressure  
< 0,1 hPa at 25 °C  
Dynamic: 30 mPa.s at 25 °C  
1,118 g/cm<sup>3</sup> at 25 °C - lit  
1,118 at 20 °C  
No data available  
Log Pow: -1,98 at 25 °C - Bioaccumulation is not expected., (IUCLID)  
No data available  
1.000 g/l at 20 °C - miscible  
No data available  
No data available

## 10. Stability and reactivity

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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.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Violent reactions possible with: Strong oxidizing agents Zinc Exothermic reaction with: Strong acids
Conditions to avoid	Heating in air. Exposure to moisture. Strong heating.
Incompatible materials	No data available
Hazardous product decomposition	No data available

## 11. Toxicological information

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Acute toxicity	Acute toxicity estimate Oral - 500,1 mg/kg (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) LD50 Dermal - Rabbit - 11.890 mg/kg (RTECS)
Skin corrosion/irritation	Skin - Rabbit Result No skin irritation (IUCLID)
Serious eye damage/irritation	Eyes - Rabbit Result No eye irritation (IUCLID)
Respiratory or skin sensitization	Maximization Test - Guinea pig Result negative (Regulation (EC) No. 440/2008, Annex, B.6)
Carcinogenicity	No data available
Germ cell mutagenicity	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test 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 Test Type: Chromosome aberration test in vitro Test system Chinese hamster ovary cells Metabolic activation with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vivo micronucleus test Species Mouse Cell type: Bone marrow Application Route: Intraperitoneal Method OECD Test Guideline 474 Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity-single exposure	No data available
Additional Information	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 - 28 Days - NOAEL (No observed adverse effect level) - 936 mg/kg - LOAEL (Lowest observed adverse effect level) - 40.000 mg/kg RTECS: ID5950000 Symptoms and signs of poisoning are: Confusion., Dizziness, Kidney injury may occur., Unconsciousness, Convulsions, Nausea, Headache, Vomiting, Pulmonary edema. Effects may be delayed. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## 12. Ecological information

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Persistence and degradability	Biodegradability aerobic - Exposure time 10 d Result 90 - 100 % - Readily biodegradable. (OECD Test Guideline 301A) Theoretical oxygen demand 1.510 mg/g (Lit.) Ratio BOD/ThBOD 1,3 - 10 % (Lit.)
Toxicity to fish	Flow-through test LC50 - Pimephales promelas (fathead minnow) - 75.222 mg/l - 96 h (ECHA)
Toxicity to daphnia and other aquatic invertebrates	Static test LC50 - Daphnia magna (Water flea) - 62.630 mg/l - 48 h

Toxicity	No data available
Toxicity to bacteria	Static test EC20 - activated sludge - > 1.995 mg/l - 30 min (ISO 8192)
Toxicity to algae	Static test NOEC - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h (OECD Test Guideline 201)
Products Biodegradation	No data available
Mobility in soil	No data available
Results of PBT av PvB 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	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

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Product	No data available
Contaminated packaging	No data available
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 classess	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	Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment has been carried out

### 16. Other information

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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 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.
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