

1. Product and Company Identification

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Product Name Tri Ethylene Glycol
Part Number RXSOL-19-1207-025

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400
Fax +91 22 27612100 ::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Weight	Formula
Tri Ethylene Glycol	112-27-6	203-953-2	150,17 g/mol	C ₆ H ₁₄ O ₄

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 Regulation (EC) No 1272/2008.
Label elements	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required
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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If inhaled	After inhalation: fresh air.
In case of skin contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	After eye contact: rinse out with plenty of water. Remove contact lenses.
If swallowed	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
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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Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Carbon oxides
	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.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.

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. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
Environmental Precaution	Do not let product enter drains.
Methods and materials for containment and cleaning up .	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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Precautions for safe handling	For precautions see section 2.2.
Storage conditions	Tightly closed.
	Recommended storage temperature see product label.
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

8. Exposure controls and personal protection

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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	Flame retardant antistatic protective clothing.
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

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

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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).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

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.

Do not let product enter drains.

Respiratory protection

Control of environmental exposure

9. Physical and chemical properties

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Physical state

Liquid

Colour

Colorless

Odour

Odorless

Melting point/freezing point

Melting point/range: -7 °C

Initial boiling point and boiling range

286,5 °C at 1.013 hPa

Flammability (solid, gas)

No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 9,2 %(V)

Lower explosion limit: 0,9 %(V)

Flash point

166 °C - closed cup

Autoignition temperature

347 °C

Decomposition temperature

> 200 °C

pH

6,5 - 7,5 at 100 g/l at 20 °C

Viscosity

Viscosity, kinematic: No data available

Viscosity, dynamic: 47,8 mPa.s at 20 °C

Water solubility

1.000 g/l at 20 °C - completely miscible

Partition coefficient: n-octanol/water

log Pow: -1,98 at 25 °C - Bioaccumulation is not expected., (Lit.)

Vapor pressure	< 0,1 hPa at 24,7 °C
Density	1,13 g/cm ³ at 15 °C
Relative density	No data availab
Relative vapor density	No data availab
Particle characteristics	No data available
Explosive properties	During processing, dust may form explosive mixture in air
Oxidizing properties	None
Relative vapor density	5,18 - (Air = 1.0)

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	Exothermic reaction with: <ul style="list-style-type: none"> Bases Strong acids hydrogen peroxide Oxidizing agents Oxygen Violent reactions possible with: <ul style="list-style-type: none"> Isocyanates permanganates Peroxides halogen oxides persulfates
Conditions to avoid	Strong heating.
Incompatible materials	Zinc
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 - > 2.000 mg/kg (ATC METHODE) Inhalation: Respiratory disorder Symptoms: slight mucosal irritations, Cough
Skin corrosion/irritation	Dermal: No data available Skin - Rabbit Result: No skin irritation - 4 h

<p>Serious eye damage/irritation</p>	<p>(Draize Test)</p> <p>Eyes - Rabbit</p> <p>Result: No eye irritation - 24 h</p>
<p>Respiratory or skin sensitization</p> <p>Carcinogenicity</p> <p>Germ cell mutagenicity</p>	<p>(Draize Test)</p> <p>Eyes - Rabbit</p> <p>Result: Mild eye irritation</p> <p>No data available</p> <p>No data available</p> <p>Test Type: Ames test</p> <p>Test system: Escherichia coli/Salmonella typhimurium</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Method: OECD Test Guideline 471</p> <p>Result: negative</p> <p>Test Type: Mutagenicity (mammal cell test): chromosome aberration.</p> <p>Test system: Chinese hamster ovary cells</p> <p>Metabolic activation: with and without metabolic activation</p> <p>Method: OECD Test Guideline 473</p> <p>Result: negative</p>
<p>Reproductive toxicity</p> <p>Specific target organ toxicity - single exposure</p> <p>Specific target organ toxicity - repeated exposure</p> <p>Aspiration hazard</p> <p>Additional Information</p>	<p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Endocrine disrupting properties</p>
	<p>Product:</p> <p>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.</p> <p>Repeated dose toxicity - Rat - male - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 1.522 mg/kg</p> <p>prolonged or repeated exposure can cause:, Nausea, Headache, Vomiting</p> <p>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</p> <p>Possible symptoms:</p>

After absorption:

Headache

Nausea

Vomiting

After absorption of large quantities:

Damage to:

Liver

Kidney

However, when the product is handled appropriately, hazardous effects are unlikely to

occur.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

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Toxicity

Toxicity to fish static test LC50 - *Lepomis macrochirus* (Bluegill sunfish)
- > 10.000

mg/l - 96 h

Remarks: (ECHA)

Toxicity to daphnia

and other aquatic

invertebrates

static test EC50 - *Daphnia magna* (Water flea) - > 10.000 mg/l - 48

h

(DIN 38412)

Toxicity to bacteria static test EC10 - activated sludge - > 1.995 mg/l - 30
min

Remarks: (ECHA)

Toxicity to daphnia

and other aquatic

invertebrates(Chronic

toxicity)

mortality NOEC - *Daphnia magna* (Water flea) - 15.000 mg/l - 21 d

Remarks: (ECOTOX Database)

mortality LOEC - *Daphnia magna* (Water flea) - 30.000 mg/l - 21 d

Remarks: (ECOTOX Database)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 25 - 92 % - Readily biodegradable.

(OECD Test Guideline 301C)

Theoretical oxygen

demand

1.600 mg/g

Remarks: (Lit.)

Ratio BOD/ThBOD 1,4 - 32 %

Remarks: (Lit.)

Bioaccumulative potential