

## 1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-27-1210-0220

Product Type Inhibited Glycol

### Company Details:

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

Stock Point ::: Kandla, Mumbai, Chennai, Kolkata, Visakhapatnam, Fujairah, Muscat

Phone +91 22 27815540 / 41 / 42

Fax +91 22 2781 1318 :::AOH :0091 9821214367

Email [mail@rxmarine.com](mailto:mail@rxmarine.com)

## 2. Composition / Information on ingredients

www.rxmarine.com

Chemical Name	CAS Number	EC Number	Index Number
Ethanediol	107-21-1	203-473-3	603-027-00-1
Proprietary Corrosion Inhibitor	-----	-----	-----

## 3. Hazards Identification

www.rxmarine.com

Hazard description:

Information concerning particular hazards for human and environment: R 22 Harmful if swallowed.

## 4. First Aid Measures

www.rxmarine.com

<b>General information</b>	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after t
<b>After inhalation</b>	Supply fresh air; consult doctor in case of complaints.
<b>After skin contact</b>	Generally the product does not irritate the skin.
<b>After eye contact</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing</b>	Call for a doctor immediately.

## 5. Fire-fighting Measures

www.rxmarine.com

Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions.

Protective equipment

No special measures required.

## 6. Accidental Release Measures

www.rxmarine.com

**Person-related safety precautions:** Not required.

**☞ Measures for environmental protection:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**☞ Measures for cleaning/collecting:**

Dilute with plenty of water.

Dispose contaminated material as waste according to item 13.

## 7. Handling and Storage

www.rxmarine.com

### Handling:

Information for safe handling: No specific requirement

Information about fire - and explosion protection: No special measures required.

### Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

## 8. Exposure controls and personal protection

www.rxmarine.com

*Additional information about design of technical facilities: No further data; see item 7.*

Ingredients with limit values that require monitoring at the workplace:

107-21-1 ethanediol

TLV (USA)

Short-term value: C 100 mg/m<sup>3</sup>

H

IOELV (EU)

Short-term value: 104 mg/m<sup>3</sup>, 40 ppm

Long-term value: 52 mg/m<sup>3</sup>, 20 ppm

WEL (Great Britain)

Skin

Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm

Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm

Sk \*particulate \*\*vapour

**Additional information:** The lists valid during the making were used as basis.

### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

**Respiratory protection:** Not required.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Goggles recommended during refilling

## 9. Physical and chemical properties

www.rxmarine.com

### General Information:

Form	Fluid
Colour	Blue
Odour	Sweetish

### Change in condition:

Meltingpoint/Melting range	12.4°C
Boiling point/Boiling range	197°C
Flash point	111°C
Ignition temperature	410°C
Danger of explosion	Product does not present an explosion hazard.

### Explosion limits:

Lower	3.2 Vol %
Upper	53 Vol %
Vapour pressure at 20°C	0.08 hPa
Density at 20°C	1.11 g/cm <sup>3</sup>

**Solubility in / Miscibility with:**

water at 20°C	1 g/l
Viscosity	
Dynamic at 20°C	21 mPas

**Description:** Mono Ethylene Inhibited Glycol Blue

Test Description	Specification Limits	Unit of Measure	Test Method
	Min. Max.		
Monoethylene Glycol	99.5	%(w/w)	
Water	0.05	%(w/w) ASTM E-203	
Acidity (as acetic acid)	0.001	%(w/w) ASTM D-1613	
Alkalinity	10	10	
Iron	0.1	ppm ASTM E-202	
DEG	05	%(w/w) SD-498	
Aldehyde (as acetaldehyde Chloride)	10	ppm	
Ash	4	3%(w/w) ISI 5295	
pH at 20°C	6.5	6.5	
pH on dilution with 25% water	8.3	8.3	
Appearance	Blue Clear	Blue Clear	
Specific Gravity 20/20°C	1.1153	1.125	
Freezing Point at 25% dilution	-11°C	-11.5 °C	
UV Transmittance wavelength %			
220	70	nm	
275	90	nm	
350	98	nm	

## 10. Stability and reactivity

[www.rxmarine.com](http://www.rxmarine.com)

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

## 11. Toxicological information

[www.rxmarine.com](http://www.rxmarine.com)

### Acute toxicity:

#### LD/LC50 values relevant for classification:

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)

#### Primary irritant effect:

on the skin	No irritant effect.
on the eye	No irritating effect.
Sensitization	No sensitizing effects known

## 12. Ecological information

[www.rxmarine.com](http://www.rxmarine.com)

### General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

### Product:

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

## 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

Land transport ADR/RID (cross-border)

ADR/RID class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

## 15. Regulatory information

[www.rxmarine.com](http://www.rxmarine.com)

### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

#### Code letter and hazard designation of product:

Xn Harmful

#### Risk phrases:

22 Harmful if swallowed.

#### Safety phrases:

2 Keep out of the reach of children.

## 16. Other information

[www.rxmarine.com](http://www.rxmarine.com)

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.