

Ethylene Glycol (RXSOL-19-1182-230)

MATERIAL SAFETY DATA SHEET • SALALAH CHEMICAL, OMAN

1. Product and Company Identification

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Product Name	RXSOL-19-1210-0210
Product Type	Mono Ethylene Glycol / Ethylene Glycol

Company Details:

RX MARINE INTERNATIONAL

105, A wing , BSEL , TECH PARK.

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2. Composition / Information on ingredients

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

3. Hazards Identification

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

4. First Aid Measures

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

5. Fire-fighting Measures

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Suitable extinguishing agents	Use fire extinguishing methods suitable to surrounding conditions.
Protective equipment	No special measures required.

6. Accidental Release Measures

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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

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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

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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 ³
IOELV (EU)	H
WEL (Great Britain)	Short-term value: 104 mg/m ³ , 40 ppm
	Long-term value: 52 mg/m ³ , 20 ppm
	Skin
	Short-term value: 104** mg/m ³ , 40** ppm
	Long-term value: 10* 52** mg/m ³ , 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

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General Information:

Form	Fluid
Colour	Colourless
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 ³
Solubility in / Miscibility with:	
water at 20°C	1 g/l
Viscosity	
Dynamic at 20°C	21 mPas

10. Stability and reactivity

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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

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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

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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

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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

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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

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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

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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.

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