Material Safety Data Sheet

Mono Ethylene Inhibited Glycol Blue (RXSOL-27-1210-224)

1. Product and Company Identifaction

Product Name	RXSOL-27-1210-0224
Product Type	Mono Ethylene Inhibited Glycol Blue

Company Details:

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

Stock Point : Muscat, Fujairah, Mumbai, Kolkata, Chennai, Visakhapatnam, Gandhidham, Nairobi

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2. Composition / informationon ingredients

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

3. Hazards Identification

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

4. First Aid Measures

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

Suitable extinguishing agents	Use fire extinguishing methods suitable to surrounding conditions.

Protective equipment	No special measures required.

6. Accidental Release Measures

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

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

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/m³ H
IOELV (EU)	Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin
WEL (Great Britain)	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 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

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/cm³
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** **Min. Max.**	**Unit of Measure**	**Test Method**
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^{o}C	6.5	6.5	
pH on dilution with 25% water	8.3	8.3	
Appearance	Blue Clear	Blue Clear	
Specific Gravity 20/20^{o}C	1.1153	1.125	
Freezing Point at 25% dilution	-11°C	-11.5 °C	

UV Tansmittance wavelength %

220	70	nm
275	90	nm
350	98	nm

10. Stability and reactivity

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

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

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

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

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

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

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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