Material Safety Data Sheet

Ethyl Glycol (RXSOL-19-1564-210)

1. Product and Company Identifaction

Product Name	RXSOL-19-1564-210
Product Type	Ethyl Glycol

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Chemical Name	CAS Number	EC Number	Index number
2-ethoxyethanol	110-80-5	203-804-1	603-012-00-X

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 60 May impair fertility.
R 61 May cause harm to the unborn child.
R 10 Flammable.
R 20/21/22 Also harmful by inhalation, in contact with skin and 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.In case of unconsciousness place patient stably in side position for transportation.
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:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: Mouth respiratory protective device.

6. Accidental Release Measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
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. Ensure adequate ventilation.

7. Handling and Storage

Handling:
Information for safe handling:
Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
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: Keep container tightly sealed.

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:

110-80-5 2-ethoxyethanol

PEL (USA)	740 mg/m³, 200 ppm Skin
REL (USA)	1.8 mg/m³, 0.5 ppm Skin
	18 mg/m³, 5 ppm Skin; BEI
TLV (USA)	37 mg/m³, 10 ppm Sk
WEL (Great Britain)	

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. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands: Protective gloves 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: Tightly sealed goggles

9. Physical and chemical properties

General Information

Form	Fluid

Colour	Colourless
Odour	Ether-like
Change in condition	
Melting point/Melting range	-100°C
Boiling point/Boiling range	135°C
Flash point	40°C
Ignition temperature	235°C
Danger of explosion	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower	1.8 Vol %
Upper	15.7 Vol %
Vapour pressure at 20°C	ca.5 hPa
Density at 20°C	0.93 g/cm³
Solubility in / Miscibility with water	Fully miscible.
Viscosity:	
Dynamic at 20°C	2.07 mPas

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	3000 mg/kg (rat)
Dermal	LC50/4 h	3300 mg/kg (rabbit)
Inhalative	LC50/4 h	2000 mg/l (rat)

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	3 Flammable liquids.
Danger code (Kemler)	30
UN-Number	1171
Packaging group	III
Hazard label	3
Description of goods	1171 ETHYLENE GLYCOL MONOETHYL ETHER

Maritime transport IMDG

IMDG Class	3
UN Number	1171
Label	3
Packaging group	III
EMS Number	F-E,S-D
Marine pollutant	No
Proper shipping name	ETHYLENE GLYCOL MONOETHYL ETHER

Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class	3
UN/ID Number	1171
Label	3
Packaging group	III
Proper shipping name	ETHYLENE GLYCOL MONOETHYL ETHER

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials
• **Risk phrases:**
60 May impair fertility.
61 May cause harm to the unborn child.
10 Flammable.
20/21/22 Also harmful by inhalation, in contact with skin and if swallowed.
• **Safety phrases:**
53 Avoid exposure - obtain special instructions before use.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

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

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