Material Safety Data Sheet

Heat Transfer Glycol Liquid (RXSOL-81-1586-210)

1. Product and Company Identifaction

Product Name	RXSOL-81-1586-210
Product Type	Heat Transfer Liquid GLYCOL

Application : Most commonly use as Heat Transfer Liquid and Antifreeze

Company Details:

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

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

Phone	+91 22 65113333 / 5555 / 9999 / 27815540/41
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Chemical Name	**CAS Number**	**EC Number**	Percentage
Propane-1,2-Diol	57-55-6	200-338-0	6-9
Ethylene Glycol	107-21-1	203-473-3	35-40
Sodium 2-Ethylhexanoate	19766-89-3	243-283-8	3-5
Boron Mixture	1303-964	215-540-4	0.5-1.5

3. Hazards Identification

Hazard description: Not applicable.
Information concerning particular hazards for human and environment: Not applicable.

4. First Aid Measures

General information	No special measures required.
After inhalation	Get medical attention if symptoms occur, Supply fresh air, consult doctor in case of complaints. On priority pass fresh air and keep at rest in a position comfortable for breathing.
After skin contact	Generally the product does not irritate the skin. However Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
After eye contact	Rinse opened eye for several minutes under running water. Also Continue to rinse for at least 10 minutes. Get medical attention if furhter irritation occurs.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. Extinguishing media : : : Use dry chemical, CO ?, alcohol-resistant foam or water spray (fog). Suitable extinguishing media
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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Additional information: No dangerous substances are released.

7. Handling and Storage

Handling:
Information for safe handling:
Handling:
Information for safe handling: No special 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.
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:

57-55-6 propane-1,2-diol

WEEL (USA)	10 mg/m³
WEL (Great Britain)	474* 10** mg/m³, 150* ppm *total vapour and particulates **particulates

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
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 - Liquid

Colour	Colourless
Odour	Nearly odourless
Change in condition	
Freezing point/Melting range	-32°C
Boiling point/Boiling range	162°C
Flash point	> 100°C
Ignition temperature	371°C
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
Lower	2.6 Vol %
Upper	12.6 Vol %
Vapour pressure at 20°C	0.11 hPa
Density at 20°C	1.0362 g/cm³
Solubility in / Miscibility with water	Fully miscible.
pH-value (- g/l)	8.8
Viscosity	
Dynamic at 25°C	46 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	2000 mg/kg (rat)
Dermal	LD50	20800 mg/kg (rabbit)

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

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

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 Smaller quantities can be disposed of with household waste.
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:
Observe the general safety regulations when handling chemicals.
The substance is not subject to classification according to EU lists and other sources of literature known to us.

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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