Material Safety Data Sheet

Polyethylene Glycol 400 PEG 400 (RXSOL-81-8123-210)

1. Product and Company Identifaction

Product Name	RXSOL-81-8123-210
Product Type	Polyethylene Glycol 400 (PEG 400)

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Name	CAS #	% by Weight
Polyethylene glycol 400	25322-68-3	100

3. Hazards Identification

Skin contact	irritant
Eye contact	irritant
Mutagenic effect	NA
Teratogenic Effect	NA
Developmental Toxicity	NA

4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.
Serious Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

5. Fire-fighting Measures

Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	CLOSED CUP: 226.67°C (440°F). OPEN CUP: 231.11°C (448°F)
Flammable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks of heat.
Risks of explosion of the product in presence of mechanical impact	Not available.
Risks of explosion of the product in presence of static discharge	Not available.
Fire Fighting Media and Instructions:	
SMALL FIRE	Use DRY chemical powder.
LARGE FIRE	Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls and personal protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	TWA: 10 (mg/m3) from AIHA Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Average Molecular Weight	380 - 420
Freezing point	39 - 46 Deg F
Flash point	435 Deg F
Fire point	510 Deg F
Specific gravity	d 60 / 60= 1.125 d 248 / 60= 1.050
Viscosity	@ 120Deg F 30.7 cp @ 248Deg F 5.5 cp
Water Solubility	solible
pH (5 % aqueous)	4.5-7.5 (5% soln)
Specific Heat , BTU /lb Deg F	@ 120 Deg F 0.494 @ 248 DegF 0.543
Physical state and appearance	Liquid. (viscous)
Odor	Odorless.
Taste	Not available.
Color	Clear
Boiling Point	Not available.
Melting Point	4°C (39.2°F) - 6 C.
Critical Temperature	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coeff.	Not available.
Ionicity (in Water)	Not available.

10. Stability and reactivity

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible materials (strong oxiders), excess heat.
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Slightly Hygroscopic
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur

11. Toxicological information

Routes of Entry	Absorbed through skin. Eye contact.
Toxicity to Animals	
Acute oral toxicity (LD50)	26800 mg/kg [Rabbit].
Acute dermal toxicity (LD50)	>20000 mg/kg [Rabbit]
Acute toxicity of the vapor (LC50)	>13 8 hours [Rat].
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on other Toxic Effects on Humans:	
Acute Potential Health Effects:	
Skin	It may cause mild skin irritation. It may be absorbed through the skin, but absorption of harmful amounts is unlikely.
Eyes	It may cause mild eye irritation.
Inhalation	At room temperature, exposure to vapor is minimal due to low volatility. A single exposure is not likely to be hazardous.
Ingestion	Low toxicity. Harmful effects not anticipated from swallowing small amounts. Ingestion of larger amounts may cause nausea, vomiting, cardiac arrhythmias, hypotension. It may also affect the urinary system. Prolonged or repeated ingestion may affect metabolism (weight loss).

12. Ecological information

Ecotoxicity	Ecotoxicity in water (LC50): >5000 mg/l 24 hours [Goldfish].
BOD5 and COD	Not available
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

13. Disposal considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

DOT Classification	Not regulated
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

15. Regulatory information

Federal and State Regulations	Not regulated
Minnesota	Polyethylene glycol 400 TSCA 8(b)
inventory	Polyethylene glycol 400
Other Regulations	Not available.
Other Classifications	
WHMIS (Canada)	Not controlled under WHMIS (Canada).
DSCL (EEC)	Not Available S24/25- Avoid contact with skin and eyes.
HMIS (U.S.A.)	
Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	g
National Fire Protection Association (U.S.A.)	
Health	0
Flammability	1
Reactivity	0
Specific hazard	
Protective Equipment	Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

16. Other information

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