

1. Product and Company Identification

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Product Name RXSOL-19-2067-210
Product Type Diglycol Amine

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Chemica Name	CAS Number	%
2-(2-Aminoethoxy)ethanol	929-06-6	60 - 100

3. Hazards Identification

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Physical state Liquid.
Odor Amine-like.
OSHA/HCS status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview DANGER!
CAUSES EYE AND SKIN BURNS. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.
Corrosive to eyes and skin. Causes burns. Do not breathe vapor or mist. Do not get in eyes or on skin or clothing. Use only in well-ventilated areas. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling. Aspiration hazard if inhaled. Can enter lungs and cause damage.

GENERAL INFORMATION Read the entire MSDS for a more thorough evaluation of the hazards.

4. First Aid Measures

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Eye contact Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Skin contact Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest. Provide oxygen if breathing is difficult. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or stockings. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under surveillance for 48 hours.

Inhalation Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Aspiration hazard if inhaled. Can enter lungs and cause damage. Do not induce vomiting. Chemical burns must be treated promptly by a physician. Never give mouth to an unconscious person.

Notes to physician Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. Fire-fighting Measures

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Flash point	Closed cup: 127°C (260.6°F)
Flammable limits	Lower: 2.6% Upper: 11.7%
Products of combustion	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special exposure hazards	In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece in positive pressure mode.

6. Accidental Release Measures

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Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Avoid breathing vapors, mist or dust. Do not get inside clothing. Remove contaminated clothing and shoes. Wash thoroughly with soap and water. If washed with water, wash immediately. If irritation occurs, get medical attention. If swallowed, get medical attention. If on skin or clothing, do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use appropriate respiratory protection with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made of compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spilled material. Absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may be hazardous as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and Storage

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Handling	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited while the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use appropriate respiratory protection with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made of compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous as the spilled product.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not use damaged containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls and personal protection

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Preventive Measures	Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific control measures at your workplace.
Engineering controls	Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in areas of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to the ACGIH current edition of 'Industrial Ventilation, a manual of Recommended Practice.'
Personal protection	

Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to liquid splashes, mists or dusts.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved approved by a specialist before handling this product.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the limits of the selected respirator.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling if a risk assessment indicates this is necessary.

9. Physical and chemical properties

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General information

Appearance	
Physical state	Liquid.
Color	Clear.
Odor	Amine-like.
Odor threshold	Not available.
Important health, safety and environmental information	
pH	11.8
Boiling point	222.5 to 223.8°C (432.5 to 434.8°F)
Melting point	-12.5°C (9.5°F)
Flash point	Closed cup: 127°C (260.6°F)
Oxidizing properties	None
Vapor pressure	8.7 mg/m ³

Sensitizer

Product/ingredient name	Route of exposure
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2-(2-Aminoethoxy)ethanol	skin
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Chronic toxicity

Product/ingredient name	Test
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	Sub-acute NOAEL Dermal
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Mutagenicity	Test
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2-(2-Aminoethoxy)ethanol	OECD 471 Bacterial
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OECD 471 Bacterial
Reverse Mutation Test

OECD 476 In vitro
Mammalian Cell Gene
Mutation Test

EPA OPPTS

OECD 474 Mammalian
Erythrocyte Micronucleus
Test

Potential acute health effects

Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. May cause burns to mouth, throat and stomach.
Inhalation	May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system
Eyes	Corrosive to eyes. Causes burns.
Skin	Corrosive to the skin. Causes burns.

Potential chronic health effects

Chronic effects	No known significant effects or critical hazards.
Target organs	None known.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.

Aquatic ecotoxicity				
Product/ingredient name	Test	Result	Species	Exposure
2-(2-Aminoethoxy)ethanol		Acute EC50 190 mg/L	Daphnia	48 hours
		Acute IC50 160 mg/L	Algae	72 hours
		Acute LC50 460 mg/L	Fish	96 hours
Biodegradability				
Product/ingredient name	Test	Result	Dose	Inoculum
2-(2-Aminoethoxy)ethanol	OECD	1 % - Not readily - 28 days	3 mg/L	Marine water
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
2-(2-Aminoethoxy)ethanol			Not readily	
Product/ingredient name	LogPow	BCF	Potential	
2-(2-Aminoethoxy)ethanol	1.2		low	

Environmental effects Not readily biodegradable. This product shows a low bioaccumulation potential.

13. Disposal considerations

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Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

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Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional info
DOT Classification	UN3055	2-(2-Aminoethoxy)ethanol	8	III		
TDG Classification	UN3055	2-(2-Aminoethoxy)ethanol	8	III		
IMDG Class	UN3055	2-(2-Aminoethoxy)ethanol	8	III		Emergency sch (EmS)
IATA-DGR Class	UN3055	2-(2-Aminoethoxy)ethanol	8	III		F-A, S-B Passenger and Aircraft Quantity limitation: 5 L Packaging inst 818 Cargo Aircraft Quantity limita

The transport regulations may change in the different countries. Check for the appropriate regulations in the country of transport or usage of this product.

15. Regulatory information

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United States HCS Classification	Corrosive material
U.S. Federal regulations CERCLA: Hazardous substances SARA 313	United States inventory (TSCA 8b): This material is listed or exempted. No ingredients listed. No ingredients listed.
California Prop 65	This product does not contain nor is it manufactured with ozone depleting substances. This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.
Canada WHMIS (Canada) CEPA (DSL)	Class E: Corrosive material This material is listed or exempted.

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

16. Other information

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Label requirements	CAUSES EYE AND SKIN BURNS. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.
Hazardous Material Information System (U.S.A.)	Health 3 Fire hazard 1 Reactivity 0
National Fire Protection Association (U.S.A.)	Health 3 Flammability 1 Instability 0

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