

1. Product and Company Identification

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Product Name Amino Trimethylene Phosphonic Acid

Part Number RXSOL-46-3269-050

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Substances

Chemical Name Amino trimethylene phosphonic acid

Formula $C_3H_{12}NO_9P_3$

Component **Concentration**

1-Hydroxy Ethylidene 1,1- diphosphonic Acid

CAS-No. 6419-19-8 48 - 52%

Phosphonic Acid

CAS-No. 13598-36-2 < 4%

3. Hazards Identification

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Classification of the substance or mixture

GHS Classification

Acute Oral Toxicity Category 5

Acute Inhalation Toxicity Category 5

Skin Irritation Category 2

Serious Eye Damage Category 1

Corrosive to Metals Category 1

Label elements

Signal Word Danger

Hazard statement H290: May be corrosive to metals.

H303: May be harmful if swallowed.

H333: May be harmful if inhaled

H315: Causes skin irritation.

Precautionary statement

H318: Causes serious eye damage.

P280: Wear protective gloves (rubber/PVC)/protective clothing such as apron, boots and safety

glasses with side shields.

P264: Wash all affected body parts thoroughly after handling.

P273: Avoid release to the environment.

P234: Keep only in original packaging.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.

P310: Immediately call a POISON CENTER/doctor

P302 + P352: IF ON SKIN: Wash with plenty of soap and water

P332 + P313: If skin irritation or rash occurs: Get medical advice/attention

P301 + 312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + P340: IF INHALED: Remove person to fresh air and keep in position comfortable for

breathing

P391 + P501: Collect Spillage. Dispose of contents/container in accordance with local/state/federal regulations.

P406: Store in corrosive resistant Glass, PVC, PP or PE container/in container with a resistant inner

4. First Aid Measures

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Eyes

Flush skin with running water for at least fifteen minutes. Remove any contact lenses. Get medical aid/attention immediately.

Skin

Remove contaminated clothing. Wash skin with plenty of running water and soap. Get medical attention/aid if irritation persists. Contaminated clothing should be washed before use.

Ingestion

If the product is swallowed, first rinse mouth. Give large amount of water to drink. Call doctor/physician/poison center immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in recovery position. Aspiration may cause pulmonary edema and pneumonitis.

Inhalation

If safe to do so, remove individual from further exposure. Keep warm and at rest. If breathing has ceased, give artificial respiration. Get medical attention/consult a physician.

Medical conditions likely to be aggravated by exposure

Central nervous system and cardiovascular system

Note to Physician

Treat symptomatically.

PPE for first responders

Gloves and safety goggles are highly recommended.

5. Fire-fighting Measures

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Flash Point (°C)	Not applicable
Flammable Limits	Not applicable
General Hazard	Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke
Extinguishing Media	Water spray, alcohol resistant foam, dry chemical powder or carbon dioxide. Appropriate for the surrounding area. Do not use a high-power water jet.
Hazardous Combustion Products	Fire may cause evolution of corrosive vapors of phosphorous oxides as well as Phosphine, nitrogen oxides (NO _x), carbon monoxide and carbon dioxide.
Fighting Procedures	Hazardous decomposition and combustion products such as phosphorous and carbon oxides can be formed if product is burning. Cool exposed containers with water spray to prevent overheating.
Fire Fighting Equipment	Respiratory and eye protection are required for firefighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all fires. Evacuate area and fight fire from safe distance or a protected location. Move fireexposed containers, if allowable without sacrificing the safety of the firefighters. Firefighters should control run-off water to prevent environmental contamination. Do not release to sewers or waterways.
Sensitivity to Static Discharge	Not sensitive.
Sensitivity to Mechanical Impact	Not sensitive.

6. Accidental Release Measures

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Protective Gear for Personnel

For Small Spill	Safety glasses or chemical splash goggles, chemically resistant gloves (rubber), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin. Wear respiratory protection to avoid inhaling vapors
For Large Spill	Triple gloves (rubber and nitrile over latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator (NIOSH approved). Self contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

Spill Clean-up Procedures

For Small Spill	In the event of a small spill, the spill should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Do not use water for clean up. Do not let chemical/waste enter the environment.
For Large Spill	In the event of a large spill, contain the spill immediately and dispose the spill/waste according to state, federal, and local hazardous waste regulation. Do not let chemical/waste enter the environment.

Environmental Precaution

Water spill	Use appropriate containment to avoid run off or release to sewer or other waterways.
Land spill	Use appropriate containment to avoid run off or release to ground.
General precaution	Remove containers of strong acid, alkali and incompatible materials from the release area.
Release Notes	If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

7. Handling and Storage

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Handling	Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing
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Qualified materials

Storage

and protective equipment before entering eating areas.

Glass, PVC, polypropylene, polyethylene.

Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep containers isolated from incompatible materials/conditions such as heat and ignition sources. Protect against physical damage and check regularly for leaks. Do not store with oxidizing agents, alkalis, or caustic substances.

8. Exposure controls and personal protection

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Engineering Controls

Use appropriate engineering controls to minimize exposure to vapors/dust generated via routine use. Maintain adequate ventilation of workplace and storage areas.

Personal Protective Equipment

Eyes and face

Wear safety glasses with side shields or face shield when handling this material.

Skin

Avoid direct contact with skin. Wear chemically resistant gloves (PVC/rubber), apron, boots or whole chemically resistant bodysuit when handling this product.

Respiratory

Avoid breathing vapor or mist. If risk of overexposure, use NIOSH approved respiratory protection equipment. If used, full face-piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application.

Work Hygienic Practices

Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

9. Physical and chemical properties

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Appearance

Clear Liquid

Odor

Perceptible, aromatic

Odor threshold

Not available

Color

Colorless to Pale Yellow

pH

At 25°C, 10 g/l: 105 ?C

Flash Point

Not combustible

Ignition Temp.

No data available

Thermal Decomposition

178°C

Evaporation Rate