

1. Product and Company Identification

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Product Name Phosphate Test Kit
Part Number RXSOL-62-5520-001

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Section 1: Identification of the Supplier and Substance/Mixture

The active reagents are the enzyme PNP (purine nucleoside phosphorylase) and the cofactor MESG (7-Methyl-6-thioguanosine).

Assay Buffer: 200 mM HEPES/ 20 mM MgCl₂ @ pH 7.6

Phosphate Standard: KH₂PO₄ (varies by kit)

3. Hazards Identification

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Pictogram (No Symbol)

Signal word Warning

Hazard Statements

H303 May be harmful if swallowed

Not a hazardous substance or mixture.

Precautionary statements

P235+410 Keep cool. Protect from sunlight.

P301+314+330 If Swallowed: Get medical advice/attention if you feel unwell. Rinse mouth.

P302+352 If on Skin: Wash with soap and water.

P305+351+338 If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do ☑ continue rinsing.

Section 3: Composition and Information on

Ingredients Substance

Common name, Chemical name, CAS number, Formula: See Table Below

Principal Hazardous Component: Biologic Activity:

Exposure Limits: Not established

Chemical Name CAS Number Chemical Formula

PNP (purine nucleoside phosphorylase) 9030-21-1 Complex Peptide

MESG (7-Methyl-6-thioguanosine) 55727-10-1 C₁₁H₁₅N₅O₄S

HEPES 7365-45-9 C₈H₁₈N₂O₄S

MgCl₂ 6H₂O (magnesium chloride hexahydrate) 7791-18-6 Cl₂Mg · 6H₂O

Potassium Phosphate, monobasic 7778-77-0 KH₂PO₄ Deionized water 7732-18-5 H₂O

4. First Aid Measures

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Enzymes/Proteins may cause allergic reactions in certain sensitive individuals. Any chemical may cause skin or eye irritation. Avoid contact with Color Reagent.

Inhalation: Remove affected individual from source, then seek medical attention.

Eyes: Remove contact lenses if present. Flush thoroughly with saline or water. Contact physician if irritation or redness persists.

Skin: Remove contaminated clothing, wash material from skin using soap and water. Contact physician if irritation develops. Clean clothing before reuse.

Ingestion: May be harmful if swallowed. Obtain medical attention as required.

5. Fire-fighting Measures

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No special fire fighting equipment, media, or clothing is required.

Auto-ignition temperature: N/A

Flash Point: N/A

Flammable Limits in Air (% by volume): N/A

Unusual fire or Explosion Hazards: N/A

Stability: Degradation products are not hazardous

6. Accidental Release Measures

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Wear appropriate protective equipment for storage and when handling. No additional precautions are required.

If Released or Spilled: Wear approved goggles and protective gloves. Collect spilled powders or solids into waste container for disposal. Avoid physical contact during removal, especially any dust. Use normal cleanup procedures for liquid spills. Wash area thoroughly with water. Wash contaminated clothing prior to reuse.

Waste Disposal: Dispose of waste in accordance with all applicable Federal, State, and Local regulations.

7. Handling and Storage

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Refer to product label for storage conditions. Store lyophilized and freeze-dried proteins in a cool, dry area in tightly closed containers when not in use. Some proteins are temperature-sensitive: store at temperature suggested on label

Handling: Wear appropriate protective equipment; see Section 8. Avoid generation of dust or aerosols

8. Exposure controls and personal protection

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Respiratory Protection: (approved dust mask or respirator) is advisable when handling a powdered form of a product in order to avoid breathing particulates. Wear protective gloves and goggles or safety glasses to prevent direct contact with skin or eyes. Sensitive individuals should wear protective clothing.

Ventilation: Advisable, standard vent fan and local exhaust as required.

9. Physical and chemical properties

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Appearance and Odor: Powders, white Solubility in Water: Soluble in water

10. Stability and reactivity

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Stability: Stable, Keep Cool

Hazardous Decomposition Products: None Known

Hazardous Polymerization: Will Not Occur

11. Toxicological information

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Acute Overexposure: May cause skin, eye, or respiratory irritation upon contact.

Chronic Overexposure: May cause allergic reactions in certain sensitive individuals. The toxicological properties of this material have not been fully investigated. Always follow Good Laboratory and Industrial Hygiene Practices and wear personal protective equipment when handling chemicals.

12. Ecological information

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Environmental Hazard: None Known.

13. Disposal considerations

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Dispose of waste in accordance with all Local, State, and Federal regulations. Chemical residues are generally classified as special waste: therefore transportation, storage, treatment, and disposal must be conducted in compliance with all applicable regulations. Rinse empty containers thoroughly before recycling.

14. Transport information

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Proper Shipping Name: Not regulated

Hazard Class: N/A

Packaging Group: N/A

Reportable Quantity: N/A

Labels Required: N/A

International Transportation Requirements: Not Regulated

UN/NA Code: N/A

15. Regulatory information

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US Federal and State: Materials are exempt for the US Environmental Protection Agency Toxic Controlled Substances Control Act (TSCA) inventory. Not known to be listed or regulated under any State jurisdiction.

International: EC: /R42/43, May cause sensitization by inhalation and skin contact. S36, wear suitable, protective clothing

16. Other information

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