Material Safety Data Sheet

Phosphate Test Kit (RXSOL-62-5520-001)

1. Product and Company Identifaction

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

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
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Email	mail@rxmarine.com

2. Composition / informationon ingredients

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

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

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

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

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

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

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

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

10. Stability and reactivity

Stability: Stable, Keep Cool

Hazardous Decomposition Products: None Known

Hazardous Polymerization: Will Not Occur

11. Toxicological information

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

Environmental Hazard: None Known.

13. Disposal considerations

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

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

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

The information provided in this SDS is believed to be correct but does not purport to be all inclusive. The information is presented as a guide. NECi assumes no liability for its accuracy or completeness. NECi does not assume liability for damages resulting from handling, use, and/or disposal of these products.