



## Safety Data Sheet

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### **Nitrate Test Kit Components: Assay Buffer, Assay Buffer + Glycerol, Assay Buffer with Nitrate**

#### **Section 1: Identification of the Supplier and Substance/Mixture**

**Assay Buffer:** 28 mM Potassium Phosphate @ pH 7.5, 0.025 mM EDTA (Ethylenediaminetetraacetic acid).

**Assay Buffer + Glycerol:** 28 mM Potassium Phosphate @ pH 7.5, 0.025 mM EDTA, Glycerol added to 25% vol./vol.

**Assay Buffer with Nitrate:** 28 mM Potassium Phosphate @ pH 7.5, 0.025 mM EDTA, 17.8 µM Potassium Nitrate

#### **Section 2: Hazards Identification**

Threshold Limit Value: varied, but below known limits as supplied in kits

**None of these solutions are classed as hazardous.**

**No applicable regulations for international transportation. No labels required.**

#### **Section 3: Composition and Information on Ingredients Substance**

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

Principal Hazardous Component: KNO<sub>3</sub> (class 5.1) Biologic Activity:

Exposure Limits: Not established

SDS for all chemicals included in the kits are available upon request.

Chemical Name	CAS Number	Chemical Formula	Quantity per Liter
<b>Potassium Phosphate, Monobasic</b>	7778-77-0	KH <sub>2</sub> PO <sub>4</sub>	3.75 g
<b>EDTA (Ethylenediaminetetraacetic acid disodium salt dihydrate)</b>	6381-92-6	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>8</sub> .2Na.2H <sub>2</sub> O	0.0093 g
<b>Glycerol</b>	56-81-5	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	250 ml
<b>Potassium Nitrate</b>	7757-79-1	KNO <sub>3</sub>	0.0018 g

#### **Section 4: First Aid Measures**

Any chemical solutions may cause skin or eye irritation.

**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.

#### **Section 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

#### **Section 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. 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.

### Section 7: Handling and Storage

Store at room temperature or refrigerated.

**Handling:** Wear appropriate protective equipment; see Section 8.

### Section 8: Exposure Controls and Personal Protection

**Respiratory Protection:** N/A

**Ventilation:** N/A

**Eye Protection:** Avoid eye contact and wear safety goggles.

**Skin Protection:** Avoid skin contact and wear appropriate gloves.

### Section 9: Physical and Chemical Properties

**Appearance and Odor:** clear, odorless liquid

**pH:** 7.5

### Section 10: Stability and Reactivity

**Stability:** Stable

**Hazardous Decomposition Products:** None Known

**Hazardous Polymerization:**

Will Not Occur

### Section 11: Toxicological Information

**Acute Overexposure:** May cause skin and eye 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.

### Section 12: Ecological Information

**Environmental Hazard:** None Known

### Section 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.

### Section 14: Transport Information

**Proper Shipping Name:** Not regulated

**Hazard Class:** N/A

**Packaging Group:** N/A

**International Transportation Requirements:** Not Regulated

**UN/NA Code:** N/A

### Section 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: S36, wear suitable, protective clothing.

### Section 16: Other Useful 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.