

MATERIAL SAFETY DATA SHEET

Section 1. Identification of the Product

Product Name or Identity: BioKits Gluten Assay Kit			
Manufacturer's Name: Neogen Corporation		Emergency Phone No.: 517/372-9200	
620 Leshler Place		Fax No.: 517/372-0108	
Lansing, MI 48912		e-mail: foodsafety@neogen.com	
Date Prepared or Revised: April 2013			

Section 2. Hazardous Ingredients / Identity Information

Kit contains mixtures of hazardous and non-hazardous substances. Below are materials identified as potentially hazardous.

Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
Sodium Chloride (Control 2%, Diluent 4%, Wash 9%)	7647-14-5	2-9%	Xi (Irritant)
Tween 80 (Wash 5%, Diluent 1%)	9005-65-6	1-5%	Xi (Irritant)
Tris (Wash)	1185-53-1	<2%	Xi (Irritant)
Phosphoric Acid (Stop Solution)	7664-38-2	<25%	Xn (Corrosive)
1-methyl-2-pyrrolidinone=NMP (TMB Substrate)	872-50-4	5-10%	Xi (Irritant)
Propylene glycol (TMB Substrate)	57-55-6	1-5%	Xi (Irritant)

Section 3. Health Hazard Identification

Health Hazards: (Acute and Chronic)	<p>Tween 80, Tris, Sodium Chloride, NMP, Propylene glycol: Risk Phrases: R 36 / 37 / 38 Eye Contact: (Irritant) May cause moderate irritation and burning sensation. Skin Contact: (Irritant) May cause irritation. Inhalation: No significant health hazards are expected. Ingestion: May be slight health hazard if ingested in large amounts.</p> <p>Phosphoric Acid 25%: Risk Phrases: R 21 / 22, R 34, R41. Eye Contact: (Corrosive) Harmful may cause redness, pain, blurred vision, burns, or serious/permanent damage to eyes. Skin Contact: (Corrosive) Harmful may cause redness, pain, and severe skin burns. Inhalation: (Irritant) Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory system. Ingestion: (Corrosive) Harmful may cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach.</p>
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Section 4. First Aid Measures

Emergency / First Aid Procedures:	<p>Ingestion: If swallowed, seek medical attention immediately. Show physician product label or MSDS.</p> <p>Inhalation: If inhaled, supply fresh air and oxygen. If breathing is difficult, seek medical attention.</p> <p>Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting upper and lower eyelids occasionally. Seek medical attention.</p> <p>Skin Contact: Remove contaminated clothing immediately. Wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.</p>
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Section 5. Fire and Explosion Hazard Data

Flash Point (Method Used): N/A	Flammable Limits: N/A
Safety Phrases: S41 In case of fire and or explosion do not breathe fumes.	
Extinguishing Media: Suitable extinguishing agents. CO ₂ , dry chemical extinguishing powder, or water spray.	
Special Fire Fighting Procedures: Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases are produced.	

Section 6. Accidental Release Measures

Accidental Release Measures: Shut off all sources of ignition, ventilate spill area. Wear respirator, chemical safety goggles, rubber boots, and rubber gloves. Absorb spill with inert material, and wash spill site after material has been cleaned up.

Waste Disposal Method: Dispose in accordance with all applicable federal, state, and local environmental regulations. Used material should be handled as potentially infectious and autoclaved or incinerated prior to disposal.

Section 7. Handling and Storage

Handling and Storing: Keep containers tightly closed. Keep away from heat, sparks, and open flame. Requirements to be met by storeroom: 2 – 8 °C.

Phosphoric Acid (Stop Solution): Avoid incompatible materials (metals and bases).

Other Precautions: Remove contaminated clothing immediately. Ensure good ventilation / exhaustion at the workplace.

Section 8. Exposure Controls / Personal Protection

OSHA PEL: N/A

ACGIH TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals. Avoid contact with eyes, skin and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed.
Wash hands before and after entering laboratory.
Immediately remove all contaminated clothing.
Avoid contact with skin and eyes.

Breathing Equipment: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Boiling Point: N/A

Specific Gravity (H₂O = 1): N/A

Vapor Pressure (mm Hg.): N/A

Melting Point: N/A

Vapor Density (AIR = 1): N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Solubility in Water: N/A

Appearance and Odor: N/A

Section 10. Stability and Reactivity

Stability:	Unstable		Conditions to Avoid: Stable under normal temperatures and pressure.
	Stable	X	

Incompatibility (Materials to Avoid): Phosphoric Acid (Stop Solution): Avoid incompatible materials (metals and bases).

Hazardous Decomposition or Byproducts: N/A

Hazardous Polymerization:	May Occur		Conditions to Avoid: No dangerous reactions known.
	Will Not Occur	X	

Section 11. Toxicological Information

When used and handled according to specifications and according to information provided for us, this product does not have any harmful effects.

Section 12. Ecological Information

Ecotoxicity Tests: The ecological effects have not been thoroughly investigated, but currently none have been identified.

Section 13. Disposal Information

Recommendation: Dispose in accordance with all applicable federal, state, and local environmental regulations.

Section 14. Transport Information

UN # -*-

Class: --

Packing Group: --

Hazard Class: --

IATA: Non-Hazardous for Air Transport

***This product is not regulated for transportation.**

Section 15. Regulatory Information**Safety Phrases:****Phosphoric Acid CAS# 7664-38-2 Xn Harmful (Corrosive)**

S26 In case of eye contact, rinse immediately with plenty of water and seek medical advice.

S27 Take off immediately all contaminated clothing.

S36/37/39 Wear suitable protective clothing, gloves, eye/face protection.

Tween 80, Tris, Sodium Chloride, NMP Propylene glycol: (Xi Irritant)

S 24 / 25 / 26 / 36 Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Section 16. Regulatory Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.