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**MATERIAL SAFETY DATA SHEET****Product name:****Catalog number:**

Peroxidase Labeling Kit-NH2

KA0014

**1. Composition/Information on Ingredients**

<b>Component</b>	<b>Size</b>
NH2-Reactive Peroxidase	3 tubes
Washing Buffer	4 ml x 1
Reaction buffer	200 ml x 1 tube
Storage Buffer	4 ml x 1
Filtration tube	3 tubes

**2. Hazards Identification**

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
N/A	N/A	

**3. First Aid Measures**

First aid personnel should ensure self-protection.

General information: Because of the low concentrations of the ingredients seeing a doctor is not necessary.

In case of skin contact: Immediately wash skin with soap and copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers.

In case of eye contact: Immediately flush eyes with plenty of water for at least 15 minutes.

In case of ingestion: Wash out mouth with water. .

In case of inhalation: Remove to fresh air. Of not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**4. Fire Fighting Measures**

Flash Point (Method Used): Not available

Flammable Limits: Not available

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Extinguishing Media: Carbon dioxide, dry chemical powder, foam, water.

Special Fire Fighting procedures:

Wear protective clothing, respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Unusual Fire and Explosion Hazards: Fire may produce irritating or poisonous gases.

## 5. Accidental Release Measures

Steps to be taken in Case Material is Released or Spilled:

Wear self— contained breathing apparatus, rubber boots and heavy rubber gloves. Evacuate area. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Avoid raising dust.

## 6. Handling and Storage

### Handling

Wear appropriate gloves, other protective clothing. Mechanical exhaust required. Use only in a chemical fume hood. Safety shower and eye bath. Face shield.

### Storage

Keep tightly closed. Protect from moisture. Store in a cool (0 to 5 °C) dark and dry place.

## 7. Exposure controls/personal protection

Respiratory Protection (Specify Type):	Necessary
Ventilation, Local Exhaust:	Chemical fume hood
Mechanical (General):	Necessary
Protective Gloves:	Chemical-resistant gloves
Eye Protection:	Chemical-safety goggles
Other protective Clothing or Equipment:	Necessary
Work/Hygienic Practices:	Wash thoroughly after handling. Access to a safety shower and eye-wash. Do not permit eating, drinking or smoking near materials.

## 8. Physical and Chemical Properties

Melting Point:	N/A
Boiling Point:	N/A
Specific Gravity (water=1):	N/A
Vapor Pressure:	N/A
Vapor Density (air=1):	N/A
Evaporation Rate (butyl acetate=1):	N/A
Solubility in Water:	Soluble
Appearance and Odor:	Slightly brown solid(NH <sub>2</sub> -Reactive peroxidase)

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Colorless solution (WS buffer, reaction buffer and storage buffer)

**9. Stability and Reactivity**

Stability: Stable

Conditions to Avoid: Heat, sunlight, high temperature

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong acids and strong bases.

Hazardous decomposition or Byproducts: When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides, phosphorus oxides and hydrogen chloride gas.

Hazardous Polymerization: Will not occur

**10. Toxicological Information**

Not available.

**11. Ecological information**

No data available.

**12. Disposal guidelines**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**13. Transport information**

Not available.

**14. Regulatory information**

Not available.

**15. Other**

The above information is believed to be correct does not purport to be all inclusive and shall be used only as a guide.

Abnova shall not be held liable for any damage resulting from handling or form contact with the above material.