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

Alkaline Phosphatase Labeling Kit-NH2

KA0001

**1. Composition/Information on Ingredients**

<b>Component</b>	<b>Size</b>
NH2-Reactive Alkaline Phosphatase	3 tubes
Washing Buffer	4 ml x 1
Reaction buffer	200 µl x 1
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>
Glycerol	56-81-5	
Washing Buffer		< 50 %
Storage Buffer		< 50 %

**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**

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Flash Point	Not available
Flammable Limits	Not available
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

Wear appropriate NIOSH/MSHA-approved respirator, chemical-safety goggles, chemical-resistant gloves, other protective clothing. Mechanical exhaust required. Used only in a chemical fume hood. Safety shower and eye bath. Face shield. Do not breathe dust. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Irritant. Harmful solid. Avoid all contact. Avoid prolonged or repeat.

Other precautions: Keep tightly closed. Protect from moisture. Store in a cool (0-5°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

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Solubility:	Soluble in DMSO
Appearance and Odor:	White powder (NH <sub>2</sub> -Reactive Alkaline Phosphatase) Colorless solution (Washing Buffer, Storage buffer and Reaction buffer)

#### 9. Stability and Reactivity

Stability	Stable
Condition to avoid	Heat, sunlight, high temperature
Incompatibility	Strong oxidizing agents, strong acids and bases
Hazardous decomposition or byproduct	When decomposed, it may emit toxic fumes of carbon monoxides.
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.

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