Material Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION
Product Name: T4 Polynucleotide Kinase
Product Code: PNK-111
SUPPLIER
Name: Biochemical Operations Department TOYOBO Co., Ltd.
Address: 2-8 Dojima Hama 2-chome, Kita-Ku OSAKA 530-8230 JAPAN
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2 COMPOSITION / INFORMATION ON INGREDIENTS
Chemical Product: T4 Polynucleotide Kinase
Chemical Nature: Preparation
Components:
- T4 Polynucleotide Kinase
- Glycerol
Chemical Name: phosphotransferase
Synonym (generic name): Glycerol
CAS No.: 56-81-5
Concentration: <10% Approx.50%

3 HAZARDS IDENTIFICATION
Most Important Hazards: Few adverse human health effects are anticipated.
Specific Hazards: Not available

4 FIRST-AID MEASURES
Inhalation: In case of irritation by inhaling this product, move affected person to fresh air and await recovery. If irritation persists, seek immediate medical attention.
Skin Contact: Wash with clean water, immediately.
Eye Contact: Flush eyes with clean water for more than 15 min, and seek medical attention.
Ingestion: Induce vomiting. If indisposition continues, seek medical attention.

5 FIRE-FIGHTING MEASURES
Extinguishing Media: Water, Carbon Dioxide, Foam, Dry Chemical Powder

6 ACCIDENTAL RELEASE MEASURES
Personal Precautions: Few adverse human health effects are anticipated.
Environmental Precautions: Recovered as possible
Methods for Cleaning up: Sweep up and place in a bag. Avoid raising a dust. Waste disposal. Ventilate the area and wash the spill site after pick up is complete.
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7 HANDLING AND STORAGE

HANDLING
Technical Measures: Wear a dust mask, latex gloves and safety glasses. Set up good ventilation and exhaust system in the work area.

Precautions: Keep away from fire or heat.

Safe Handling Advice: Good laboratory technique should be used when handling this product.

STORAGE
Technical Measures: Store in the sampling tube.
Storage Conditions: Store at about -20 ºC.
Incompatible Products: Oxidizers

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT
Respiratory Protection: Wear a dust mask. Set up good ventilation and exhaust system in the work area.
Hand Protection: Chemical safety gloves.
Eye Protection: Chemical safety goggles.
Skin and Body Protection: Long sleeves to prevent contact with skin.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Colour: colorless
Odour: none
pH: 7.0-8.5
Boiling Point: Not available
Melting Point: Not available
Decomposition Temperature: Not available
Flash Point: Not available
Density: Not available
Solubility: Soluble in water.

10 STABILITY AND REACTIVITY

Stability: Stable under normal handling and storage conditions
Possible Hazardous Reactions: None
Conditions to Avoid: Not available
Material to Avoid: Strong acids, strong alkalis and strong oxidizers

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Not available (probably very low)
Local Effects: Not available (probably very low)
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12 ECOLOGICAL INFORMATION
Mobility Not available
Persistence/Degradability Not available
Bioaccumulation Not available

13 DISPOSAL CONSIDERATIONS
Waste from Residues Dispose of in accordance with all applicable local and national laws and regulations.
Contaminated Packaging Dispose of in the same way as the material.

14 TRANSPORT INFORMATION
International Regulations
UN Classification Number Not classified
Specific Precautions Do not drop, overturn, or destroy containers for heavy load.
To prevent packages from breaking, keep dry and handle with care.

15 REGULATORY INFORMATION
Follow all of the laws and regulations in your respective country.

16 OTHER INFORMATION
Notice The information in this MSDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information.