



DNA Polymerase Technology

Material Safety Data Sheet

Version 1.0
Revision Date: 05/21/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **PEC-2 (PCR Enhancer Cocktail)**

Manufacturer: DNA Polymerase Technology, Inc.
1508 South Grand Blvd.
St. Louis, Missouri 63104
USA

Telephone: 314.771.5566
Fax: 314.771.5581
Website: www.klentaq.com

Emergency Phone: 1-800-222-1222 (U.S. Poison Help Hotline)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name: PEC-2 (PCR Enhancer Cocktail)
CAS #: None

Ingredient:	% by weight	CAS #
1. D-(+)-Trehalose dihydrate	45.4%	6138-23-4
2. L-Carnetine inner salt	6.5%	541-15-1
3. Nonylphenylpolyethylene glycol	1.6%	9016-45-9
4. Heparin Sodium Salt	<0.1%	9041-08-1

3. HAZARDS IDENTIFICATION

Hazard information for the substance as whole: No information available. However it is recommended to avoid ingestion and contact with eyes, skin, and respiratory tract.

Emergency Overview: Irritating to eyes, respiratory system, and skin

OSHA Hazards
No known OSHA hazards

HMIS Classification
Health Hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating
Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

For additional information on toxicity, please refer to Section 11.

4. FIRST AID MEASURES

If inhaled: move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: wash with soap and water.

In case of eye contact: flush eyes with water.

If swallowed: rinse mouth with water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flammable properties:

Flash point: no data available

Ignition temperature: no data available

Flammability: no data available.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire fighters: Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: none required

Environmental precautions: N/A

Methods for cleaning up: Absorb with a paper towel and dispose with dry waste or rinse down the drain.

7. HANDLING AND STORAGE

Handling: Avoid inhaling any vapors. Avoid contact with eyes, skin, and clothing. Use normal measures for fire prevention.

Storage: Recommended storage temperature: 4°. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: contains no substances with occupational exposure limit values.

Technical measures for exposure control: Provide adequate ventilation and access to eye-wash and safety shower

Personal protective equipment (PPE) recommendations: The use of a lab coat is recommended.

Respiratory protection: not required.

Hand protection: Laboratory gloves are recommended.

Eye protection: Safety glasses are recommended.

Hygiene measures: General industrial hygiene practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

Safety data:

pH: no data available

Melting point: no data available

Boiling point: no data available

Flash point: no data available

Ignition temperature: no data available

Lower explosion limit: no data available
Upper explosion limit: no data available
Water solubility: soluble

10. STABILITY AND REACTIVITY

Storage stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. May produce carbon oxides and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: no data available

Irritation and corrosion: no data available

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Chronic exposure: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Signs and Symptoms of Exposure: The chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects:

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability): no data available

Ecotoxicity effects: no data available

Further information on ecology: no data available

13. DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards: No known OSHA hazards

DSL Status: This product is not on the Canadian DSL or NDSL lists.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title

III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: No SARA Hazards

Massachusetts Right to Know Components: No components subject to the Right to Know Act.

Pennsylvania and New Jersey Right to Know Components: PEC-2 (PCR enhancer Cocktail), Cas #: none.

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer. Nonylphenylpolyethylene glycol may cause reproductive disorder(s) based on tests with laboratory animals.

16. OTHER INFORMATION

Disclaimer:

For R&D use only. Not for drug, household or other uses. The above information is believed to be correct, based on the present state of our knowledge, but does not purport to be all-inclusive and should be used only as a guide. The information does not represent any guarantee of the properties of the product. DNA Polymerase Technology, Inc. cannot control the actual methods, volumes, or conditions of use and, therefore, specifically disclaims liability and responsibility arising from the use, misuse or alteration of its products. License granted to make copies for internal use only.