



## SAFETY DATA SHEET

Revision Date 8/4/2016

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identification

Product Name : ([125I]-Tyr)-Prepro-Atrial Natriuretic Factor (26-55) (human)  
Product Code : H-5142.0010  
CAS-No. : N/A; mixture

#### 1.2 Company Identification

Peninsula Laboratories International, Inc.  
305 Old County Road  
San Carlos, CA 94070  
USA

Telephone : (650) 801-6090  
Fax : (650) 595-4071

Emergency : (650) 801-6090 (8:30am-5pm Pacific Time)

#### 1.3 Recommended use and Restrictions on use

Laboratory reagent, Research Use Only

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### 2. HAZARD(S) IDENTIFICATION

#### 2.1 Classification of the mixture

##### GHS-US Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation 1B, H314  
Serious eye damage/eye irritation 1, H318  
Flammable liquids 3, H226

#### 2.2 GHS Label elements, including precautionary statements

Hazard Pictogram : 

Signal Word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H226 Flammable liquid and vapor

Precautionary statements : P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. spray.  
P233 Keep container tightly closed.  
P235 Keep cool.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash exposed skin thoroughly after handling.



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- P280 Wear protective gloves, clothing, eye protection.
- P301/P330/P331 If swallowed rinse mouth. Do not induce vomiting.
- P303/P361/P353 If on skin or hair, Remove all contaminated clothing. Rinse skin with water/shower.
- P304/P340 If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305/P351/P338 If in eyes, Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P370/P378 In case of fire: Use water spray for extinction.
- P403 Store in a well-ventilated place.
- P405 Store locked up.
- P501 Dispose contents/container to comply with local, state and federal regulations.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- Harmful by inhalation, ingestion, or skin absorption.
- May cause skin irritation.
- May cause severe eye irritation.
- Iodine-125 Radionuclide emits gamma radiation. May cause cancer.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substance** : Not applicable

3.2 **Mixture** :

PRINCIPLE COMPONENTS	CONCENTRATION	CAS No	GHS-US CLASSIFICATION
125-Iodine, Iodine-125 Radionuclide	10uCi	none	Not classified
Acetic Acid	50%	64-19-7	Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Damage 1, H318
Water	50%	7732-18-5	Not classified

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## 4. FIRST-AID MEASURES

### 4.1 Description of First Aid Measures

**Inhalation:** Supply fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in position comfortable for breathing. Immediately call a poison center or physician.

**Ingestion:** Rinse mouth. Do not induce vomiting. If vomiting occurs take measures to ensure no material is aspirated into respiratory tract. Immediately call a poison center or physician.

**In case of skin contact:** Immediately remove all contaminated clothing. Rinse with running water several minutes. Wash with soap and water. Immediately call a poison center or physician.

**In case of eye contact:** Rinse cautiously for several minutes under running water. Immediately call a poison center or physician.

### 4.2 Important Symptoms/Effects, acute and delayed

Causes severe skin burns and eye damage.

### 4.3 Required treatment



Obtain medical assistance.

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## **5. FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing agents**

**Suitable extinguishing agents:** Dry powder, carbon dioxide, water spray, alcohol resistant foam. Sand.

**Unsuitable extinguishing agents:** Do not use a heavy water stream.

### **5.2 Special hazards arising from the substance or mixture**

**Reactivity:** Thermal decomposition generates corrosive vapors.

### **5.3 Advice for firefighters**

**Protective equipment:** Do not enter fire area without proper protective equipment, including self-contained respiratory protective device.

**Firefighting instructions:** Use water spray for cooling exposed containers. Exercise caution while fighting chemical fire.

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## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **6.1.1 For non-emergency personnel**

**Personal precautions, protective equipment, emergency procedures:** Wear respiratory protection, safety glasses, gloves, protective clothing including a full length lab coat (see section 8). Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate unnecessary personnel.

#### **6.1.2 For emergency responders**

**Personal precautions, protective equipment, emergency procedures:** Equip cleanup crew with proper protection, including: respirator, chemical safety goggles, rubber boots, rubber gloves. Ventilate area, mechanical exhaust. Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### **6.3 Methods and material for containment and cleanup**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Blot spills with inert solids, such as sand, clay, diatomaceous earth, acid binders, universal binders, or sawdust as soon as possible. Collect spillage and absorbent material and place in closed container, store away from other materials, for proper disposal. Wash spill site thoroughly and discard contaminated cleanup items in closed container for proper disposal.

### **6.4 Disposal**

Dispose in accordance with local regulation. Discard in radioactive waste.

### **6.5 References to other sections**

See Section 8 Exposure Controls and personal protection.

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## **7. HANDLING AND STORAGE**



## 7.1 Precautions for safe handling and hygiene

Avoid contact is skin and eyes. Avoid formation of dust and aerosols. Provide ventilation in work area to prevent vapor buildup. Do not breathe dust, mist, vapors, spray. Wash hands and other exposed skin with mild soap and water before eating, drinking, or smoking and when leaving work. Wash contaminated clothing before reusing.

## 7.2 Conditions for safe storage, and incompatibilities

- Technical measures** : Comply with applicable regulations.
- Storage conditions** : Keep container closed when not in use. Store at -20C.
- Incompatible products** : Strong oxidizers. Metals. Strong bases.
- Incompatible situations** : Sources of ignition. Direct sunlight.

## 7.3 Specific end use(s)

Apart from uses listed in Section 1.3, no other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

#### Acetic Acid

USA ACGIH	AGCIH TWA (ppm)	10 ppm
USA ACGIH	AGCIH STEL (ppm)	10 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

### 8.2 Exposure Controls

**Appropriate engineering controls** : Avoid contact with skin, eyes, and clothing. General industrial hygiene practice. Emergency eye wash fountains or eye wash bottles and safety showers should be available in the immediate vicinity of any potential exposure. Fume hood.

**Personal protective equipment** : Avoid all unnecessary exposure by using the following equipment:

**Hand protection** : Wear protective gloves, that are impermeable and resistant to acids.

**Eye protection** : Chemical goggles or face shield.

**Skin and body protection** : Wear suitable protective clothing, such as a laboratory coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** : Wear appropriate mask.

**Other information** : Do not eat, drink, or smoke during use.

**Control of environmental exposure** : Prevent leakage and spillage if safe to do so.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Physical state** : Liquid
- Color** : Colorless
- Odor** : Vinegar odor
- Odor threshold** : No data available



<b>pH</b>	: No data available
<b>Relative evaporation rate</b>	: No data available
<b>Melting point</b>	: No data available
<b>Freezing point</b>	: No data available
<b>Boiling point</b>	: No data available
<b>Flash point</b>	: No data available
<b>Self-ignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: No data available
<b>Vapor Pressure</b>	: No data available
<b>Relative vapor density at 20C</b>	: No data available
<b>Relative density</b>	: No data available
<b>Density</b>	: 1.06 g/ml
<b>Solubility</b>	: Soluble in water
<b>Log Pow</b>	: No data available
<b>Log Kow</b>	: No data available
<b>Viscosity, kinematic</b>	: No data available
<b>Viscosity, dynamic</b>	: 2 cSt
<b>Explosive properties</b>	: No data available
<b>Oxidizing properties</b>	: No data available
<b>Explosive limits</b>	: No data available

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

Thermal decomposition generates: Corrosive vapors.

### **10.2 Chemical stability**

Acetic acid is stable under normal conditions. Radioactive decay of 125-Iodine.

### **10.3 Possibility of hazardous reactions**

Reacts violently with (some) bases. Release of heat.

### **10.4 Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

### **10.5 Incompatible materials**

Strong oxidizers. Metals. Strong bases.

### **10.6 Hazardous decomposition products**

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

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## **11. TOXICOLOGICAL INFORMATION**

### **Information on toxicological effects**

<b>Acetic Acid, 50% v/v (1+1)</b>	
<b>LD50 oral rat</b>	<b>2138 mg/kg</b>

<b>125-Iodine, Iodine-125 Radionuclide</b>	
<b>Acute toxicity</b>	<b>Skin and eye irritant</b>



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Water (7732-18-5)	
LD50 oral rat	≥90000mg/kg

<b>Routes of Exposure</b>	: Inhalation, absorption (skin and eye contact), ingestion.
<b>Skin corrosion</b>	: Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	: Causes serious eye damage.
<b>Respiratory or skin sensitization</b>	: Not classified. No sensitizing effect known.
<b>Germ cell mutagenicity</b>	: Not classified
<b>Carcinogenicity</b>	: Not classified. May cause cancer.
<b>Reproductive toxicity</b>	: Not classified.
<b>Specific target organ toxicity (single exposure)</b>	: Not classified.
<b>Specific target organ toxicity (repeated exposure)</b>	: Not classified.
<b>Aspiration hazard</b>	: Not classified.
<b>Potential adverse human health effects and symptoms</b>	: Based on the available data, classification criteria are not met.
<b>Symptoms/injuries after eye contact</b>	: Causes serious eye damage.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is the users' responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. Peninsula Laboratories International, Inc. shall not be held liable for any damage resulting from the handling of the above product.