

**Safety Data Sheet**  
**Biotinylated Phe-Pro-Arg-chloromethylketone (PPACK)**

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**SECTION 1: Identification**

**1.1 Product identifier**

Product name	Biotinylated Phe-Pro-Arg-chloromethylketone (PPACK)
Product number	BFPRCK-06

**1.2 Other means of identification**

Biotinylated H-D-Phe-Pro-Arg-chloromethylketone

**1.3 Recommended use of the chemical and restrictions on use**

Laboratory chemicals

**1.4 Supplier's details**

Name	Haematologic Technologies, Inc.
Address	57 River Road Essex Junction, VT 05452 USA
Telephone	+1 (802) 878-1777
Fax	+1 (802) 878-1776
email	hti@haemtech.com

**1.5 Emergency phone number(s)**

+1 (802) 878-1777 Hours of operation: M-F 08:00-16:30 EST  
+1 (800) 424-9300 (CHEMTREC<sup>®</sup>) during non-company hours

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**SECTION 2: Hazard identification**

**General hazard statement**

No hazards have been identified for this compound.

**2.1 Classification of the substance or mixture**

**GHS classification in accordance with OSHA (29 CFR 1910.1200)**

**2.2 GHS label elements, including precautionary statements**

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

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### Hazardous components

Component	Concentration
<b>Phe-Pro-Arg-Chloromethylketone (CAS no.: 71142-71-7)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>0.1 - 2 % (Weight)</b>
<b>Hydrochloric acid (&gt;=37%) (CAS no.: 7647-01-0; EC no.: 231-595-7; Index no.: 017-002-01-X)</b> CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Corrosive to metals (chapter 2.16), Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage; H318 - Causes serious eye damage; H335 - May cause respiratory irritation.	<b>0.1 % (Volume)</b>
<b>D-Biotin (CAS no.: 58-85-5)</b> CLASSIFICATIONS: No data available. HAZARDS: No data available.	<b>0.1 % (Weight)</b>

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	DO NOT induce vomiting unless instructed to do so by medical professionals. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Personal protective equipment for first-aid responders	No data available.

### 4.2 Most important symptoms/effects, acute and delayed

No data available.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Specific hazards arising from the chemical

No data available.

### 5.3 Special protective actions for fire-fighters

No data available.

### Further information

No data available.

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## SECTION 6: Accidental release measures

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

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Not required.

### 6.2 Environmental precautions

No special measures required.

### 6.3 Methods and materials for containment and cleaning up

Pick up mechanically.

#### Reference to other sections

No data available.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Prevent formation of dust.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, -70oC space.

#### Specific end use(s)

No data available.

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## SECTION 8: Exposure controls/personal protection

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Thermal hazards

No data available.

#### Environmental exposure controls

No data available.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance/form	Liquid
Odor	Nearly odorless
Odor threshold	No data
pH	No data
Melting point/freezing point	No data
Initial boiling point and boiling range	No data
Flash point	Not applicable
Evaporation rate	No data
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	No data
Vapor pressure	No data
Vapor density	No data
Relative density	No data
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Explosive properties	No data
Oxidizing properties	No data

#### Other safety information

No data available.

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

No data available.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4 Conditions to avoid

No data available.

#### 10.5 Incompatible materials

No data available.

#### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

No data available.

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### **Skin corrosion/irritation**

No data available.

### **Serious eye damage/irritation**

No data available.

### **Respiratory or skin sensitization**

No data available.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No data available.

### **Reproductive toxicity**

No data available.

### **Summary of evaluation of the CMR properties**

No data available.

### **STOT-single exposure**

No data available.

### **STOT-repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**

No data available.

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## **SECTION 12: Ecological information**

### **Toxicity**

Hydrochloric acid ( $\geq 37\%$ )  
LC50 - Mosquito fish - 282 mg/l - 96 h

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Results of PBT and vPvB assessment**

No data available.

### **Other adverse effects**

No data available.

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## **SECTION 13: Disposal considerations**

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## Biotinylated Phe-Pro-Arg-chloromethylketone (PPACK)

### Disposal of the product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Disposal of contaminated packaging

Dispose of as unused product.

### Waste treatment

No data available.

### Sewage disposal

No data available.

### Other disposal recommendations

Offer surplus and non-recyclable solutions to a licensed disposal company.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### Massachusetts Right To Know Components

Chemical name: Hydrochloric acid

CAS number: 7647-01-0

#### New Jersey Right To Know Components

Common name: HYDROGEN CHLORIDE

CAS number: 7647-01-0

#### Pennsylvania Right To Know Components

Chemical name: Hydrochloric acid

CAS number: 7647-01-0

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Hazards

The following components are subject to reporting levels established by SARA Title III, Section 313: CAS-no. 7647-01-0

#### SARA 313 Components

Acute Health Hazard

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

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**SECTION 16: Other information**

**16.1 Further information/disclaimer**

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