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

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®) during non-company hours

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures
## Hazardous components

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phe-Pro-Arg-Chloromethylketone (CAS no.: 71142-71-7)</td>
<td>0.1 - 2 % (Weight)</td>
</tr>
<tr>
<td>Hydrochloric acid (&gt;=37%) (CAS no.: 7647-01-0; EC no.: 231-595-7; Index no.: 017-002-01-X)</td>
<td>0.1 % (Volume)</td>
</tr>
<tr>
<td>D-Biotin (CAS no.: 58-85-5)</td>
<td>0.1 % (Weight)</td>
</tr>
</tbody>
</table>

**CLASSIFICATIONS:**
- No data available.
**HAZARDS:**
- No data available.

## 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.

## 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.

## SECTION 6: Accidental release measures

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

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, -70°C space.

Specific end use(s)
No data available.

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.
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.

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.

SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
No data available.
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.

SECTION 12: Ecological information

Toxicity
Hydrochloric acid (>=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.

SECTION 13: Disposal considerations
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.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

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.
SECTION 16: Other information

16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Haematologic Technologies, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Haematologic Technologies, Inc. has been advised of the possibility of such damages.