SECTION 1: Identification

1.1 Product identifier

Product name Phe-Pro-Arg-chloromethylketone
Product number FPRCK-01
CAS no. 71142-71-7

1.2 Other means of identification
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

2.2 GHS label elements, including precautionary statements

Pictogram

Precautionary statement(s)
P102 Keep out of reach of children.
SECTION 3: Composition/information on ingredients

3.1 Substances
CAS no.: 71142-71-7; Formula: C21H31ClN6O3; Molecular weight: 450.97
Other names / synonyms: PPACK

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>95 - 100 % (Weight)</td>
</tr>
</tbody>
</table>

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
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
Safety Data Sheet  
**Phe-Pro-Arg-chloromethylketone**

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**  
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.

**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, 2-8°C space.

**Specific end use(s)**  
No data available.

**SECTION 8: Exposure controls/personal protection**

8.2 **Appropriate engineering controls**  
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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

**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 workplace. 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form</td>
<td>Powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Nearly odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data</td>
</tr>
<tr>
<td>pH</td>
<td>No data</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td>No data</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>50 g/l at 25oC</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data</td>
</tr>
</tbody>
</table>

**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
No data available.

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

15.2 Chemical Safety Assessment
A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Further information/disclaimer
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