

Safety Data Sheet
Biotinylated Glu-Gly-Arg-chloromethylketone

SECTION 1: Identification

1.1 Product identifier

Product name Biotinylated Glu-Gly-Arg-chloromethylketone
Product number BEGRCK-01

1.2 Other means of identification

Biotinylated GGACK

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

Signal word

Warning

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Formula: C₁₄H₂₅ClN₆O₅

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

Other names / synonyms: GGACK

Hazardous components

Component	Concentration
Glu-Gly-Arg chloromethylketone CLASSIFICATIONS: No data available. HAZARDS: No data available.	0.1 - 2 % (Weight)
Hydrochloric acid (>=37%) (CAS no.: 7647-01-0; EC no.: 231-595-7; Index no.: 017-002-01-X) 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.	0.1 % (Volume)
D-Biotin (CAS no.: 58-85-5) CLASSIFICATIONS: No data available. HAZARDS: No data available.	0.1 % (Weight)

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. Get medical attention.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Get medical attention.
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

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

- 6.1 Personal precautions, protective equipment and emergency procedures**
Chemical safety goggles, protective clothing and shoes, protective rubber gloves
- 6.2 Environmental precautions**
No special measures required.
- 6.3 Methods and materials for containment and cleaning up**
Pick up mechanically placing in a waste disposal container.

Reference to other sections
No data available.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
Prevent formation of dust. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from heat, and sources of ignition. Evaporate residue under a fume hood.
- 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.

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)**

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.

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

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	Frozen 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
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

These products are carbon oxides (CO, CO₂), halogenated compounds, hydrogen chloride.

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

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 ($\geq 37\%$)

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.

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

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

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.

Massachusetts Right To Know Components

Chemical name: Hydrochloric acid

CAS number: 7647-01-0

New Jersey Right To Know Components

Safety Data Sheet

Biotinylated Glu-Gly-Arg-chloromethylketone

Common name: HYDROGEN CHLORIDE
CAS number: 7647-01-0

Pennsylvania Right To Know Components

Chemical name: Hydrochloric acid
CAS number: 7647-01-0

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.