

# Safety data sheet according to 1907/2006/EC, Article 31

1431200

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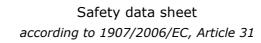
Revision: 05.08.2013 Printing date: 07.07.2016

| - | Identification of the substance/mixture and of the company/undertaking |  |
|---|--|--|
| • | Product identifier   |  |
| • | Trade name:  |  |
|   | Boc-GIn-Arg-Arg-AMC acetate salt                                       |  |
| • | Article number:  |  |
|   | new: 4017093 old: I-1655   |  |
| • | CAS Number:  |  |
|   | 109376-05-8  |  |
| • |  |  |
| • | Application of the substance / the preparation<br>Laboratory chemicals |  |
|   |  |  |
| • | Details of the supplier of the safety data sheet                       |  |
| • | Manufacturer/Supplier:   |  |
|   | Bachem AG<br>Hauptstrasse 144  |  |
|   | CH-4416 Bubendorf  |  |
|   | Switzerland  |  |
|   | E-mail msds@bachem.com   |  |
|   | Tel +41 58 595 2021<br>Fax +41 58 595 2040                             |  |
|   |  |  |
| • | Further information obtainable from:                                   |  |
|   | Department: Marketing  |  |
|   | Emergency telephone number:  |  |
|   | +41 44 251 51 51 (Tox Info Suisse)                                     |  |
|   |  |  |
| 2 | Hazards identification   |  |
|   | Classification of the substance or mixture                             |  |
| • | Classification according to Regulation (EC) No 1272/2008<br>Void       |  |
|   | Label elements   |  |
|   | Labelling according to Regulation (EC) No 1272/2008                    |  |
|   | Void   |  |
| • | Signal word  |  |
|   | Void<br>Hazard statements  |  |
| • | Hazard statements<br>Void  |  |
| • | Other hazards  |  |
|   | Results of PBT and vPvB assessment                                     |  |
| • | PBT:   |  |
|   | Not applicable.  |  |
| • | vPvB:  |  |
|   | Not applicable.  |  |
|   | Composition/information on ingredients                                 |  |
| 2 |  |  |
|   | Chemical characterization: Substances                                  |  |

- Identification number(s)EC number:
- EC number.
- RTECS Number:

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#### 1431200

BACHEM

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# PRODUCT : Boc-Gin-Arg-Arg-AMC acetate salt

04 First aid measures

- · Description of first aid measures
- After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

- Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water.

- After swallowing:
- Call a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 05 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- No further relevant information available.
- Advice for firefighters
- Protective equipment:
- No special measures required.

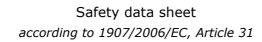
#### 06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections

### 07 Handling and storage

- Handling:
- Precautions for safe handling Prevent formation of dust.
- Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Store in dry conditions.
   Protect from exposure to the light.
- Recommended storage temperature: -20 +/- 5 °C
- Specific end use(s)
   No further relevant information available.





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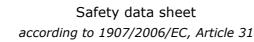
**BACHEM** 

|   | (Contd. of page 2   |
|---|---|
| 08 Exposure con                             | trols/personal protection   |
| <ul> <li>Control parameter</li> </ul>       | ers   |
| Ingredients with                            | limit values that require monitoring at the workplace:  |
| CAS No.                                     | Designation of material   |
| Not required.                               |   |
| Additional inform                           | ation:  |
| The lists valid duri                        | ng the making were used as basis.   |
| Exposure contro                             | ls  |
| <ul> <li>Personal protect</li> </ul>        | ive equipment:  |
| •   | ve and hygienic measures:   |
|   | onary measures are to be adhered to when handling chemicals.  |
| <ul> <li>Respiratory prot</li> </ul>        |   |
| In case of brief exp<br>respiratory protect | posure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained |
| 1 21  | atory protective device in case of insufficient ventilation.  |
| <ul> <li>Protection of har</li> </ul>       |   |
| The glove material                          | has to be impermeable and resistant to the product/ the substance/ the preparation.                               |
|   | ts no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.   |
|   | we material on consideration of the penetration times, rates of diffusion and the degradation                     |
| Protective gloves                           |   |
| Material of glove                           |   |
| manufacturer to m                           |   |
| <ul> <li>Penetration time</li> </ul>        |   |
|   | rough time has to be found out by the manufacturer of the protective gloves and has to be observed.               |
| <ul> <li>Eye protection:</li> </ul>         |   |

# 09 Physical and chemical properties

| General Information              |                  |  |  |  |  |
|----------------------------------|------------------|--|--|--|--|
| Appearance:                      |                  |  |  |  |  |
| Form:                            | Powder           |  |  |  |  |
| Colour:                          | White            |  |  |  |  |
| Odour:                           | Nearly odourless |  |  |  |  |
| Odour threshold:                 | Not determined.  |  |  |  |  |
| Change in condition              |                  |  |  |  |  |
| Boiling point/Boiling range:     | Undetermined.    |  |  |  |  |
| Flash point:                     | Not applicable.  |  |  |  |  |
| Flammability (solid, gaseous):   | Not applicable.  |  |  |  |  |
| Ignition temperature:            |                  |  |  |  |  |
| Decomposition temperature:       | Not determined.  |  |  |  |  |
| Self-igniting:                   | Not determined.  |  |  |  |  |
| Danger of explosion:             | Not determined.  |  |  |  |  |
| Explosion limits:                |                  |  |  |  |  |
| Lower:                           | Not determined.  |  |  |  |  |
| Upper:                           | Not determined.  |  |  |  |  |
| Vapour pressure:                 | Not determined.  |  |  |  |  |
| Density:                         | Not determined.  |  |  |  |  |
| Solubility in / Miscibility with |                  |  |  |  |  |
| water:                           | Not determined.  |  |  |  |  |
| Viscosity:                       |                  |  |  |  |  |
| Dynamic:                         | Not determined.  |  |  |  |  |





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# PRODUCT : Boc-Gin-Arg-Arg-AMC acetate salt

Kinematic: Other information Not determined.

No further relevant information available.

#### 10 Stability and reactivity

- Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions
- No dangerous reactions known.Conditions to avoid
- Conditions to avoid
- No further relevant information available. Incompatible materials:
- No further relevant information available.
- Hazardous decomposition products:
- No dangerous decomposition products known.

#### 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- No further relevant information available.
- Primary irritant effect:
- on the skin:
  - No further relevant information available.
- on the eye: No further relevant information available.
- Sensitization:
- No sensitizing effects known.
- · Additional toxicological information:

The substance is not subject to classification according to the latest version of the EU lists.

#### 12 Ecological information

- Toxicity
- · Aquatic toxicity:
- No further relevant information available.Persistence and degradability
- No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil
- No further relevant information available.
- Results of PBT and vPvB assessment
- PBT:
- Not applicable.
- vPvB:
- Not applicable.
- · Other adverse effects
- No further relevant information available.

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# Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 05.08.2013 rinting date: 07.07.2016

| 2 Disposal considerations          (Contd. of page 4<br>Vaste treatment methods          • Waste disposal key:<br>18 02 06<br>Uncleaned packaging:<br>Recommendation:<br>Disposal must be made according to official regulations.          4 Transport information  | RODUCT : Boc-Gin-Arg-Arg-AMC a                          | icetate salt                           |         |
|---|---|--|---------|
| <ul> <li>Waste treatment methods</li> <li>Waste disposal key:<br/>18 02 06</li> <li>Uncleaned packaging:<br/>Recommendation:<br/>Disposal must be made according to official regulations.</li> </ul> 4 Transport information <ul> <li>UN-Number</li> <li>ADR</li> <li>Void</li> <li>IMDG</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IMDG</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IMDG</li> <li>IATA</li> <li>Void</li> <li>IATA</li></ul>   |   | (Contd. of                             | page 4) |
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| 18 02 06         • Uncleaned packaging:         • Recommendation:         Disposal must be made according to official regulations.             4 Transport information             • UN-Number         ADR       Void         IMDG       Void         IMDG       Void         IATA       Void         DBG       Void         IMDG       Void         IATA       Void         IMDG       Class         ADR       Class         Class       Void         IATA       Class         Class       Void         IATA       Class         Dig proup       ADR         ADR       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         IATA<  | Waste treatment methods                                 |  |         |
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| <ul> <li>Recommendation:<br/>Disposal must be made according to official regulations.</li> <li>         4 Transport information         4 Transport information         4 UN-Number         ADR         Void         IMDG         Void         IMDG         Void         IATA         Void         IATA         Void         IMDG         Void         IATA         Void         IMDG         Void         IATA         Void         IMDG         Void         IATA         Void         IMDG         Void         IATA         Void</li></ul>  | <ul> <li>Uncleaned packaging:</li> </ul>                |  |         |
| 4 Transport information         • UN-Number         ADR       Void         MDG       Void         IMTA       Void         IATA       Void         • UN proper shipping name       ADR         ADR       Void         IMDG       Void         IMDG       Void         IMDG       Void         IATA       Void         IMDG       Void         Class       Void         IMDG       Class         Class       Void         IMDG       Uoid         IATA       Void         IMDG       Void         IMDG       Void         IMDG       Void         IATA       Void         IAT   |   |  |         |
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| <ul> <li>UN-Number</li> <li>ADR</li> <li>Void</li> <li>IMDG</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>UN proper shipping name</li> <li>ADR</li> <li>Void</li> <li>IMDG</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IATA</li> <li>Void</li></ul>   |   |  |         |
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| <ul> <li>UN proper shipping name</li> <li>ADR</li> <li>Void</li> <li>IMDG</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>Transport hazard class(es)</li> <li>ADR</li> <li>Class</li> <li>Void</li> <li>IMDG</li> <li>Class</li> <li>Void</li> <li>IATA</li> <li>Class</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>IATA</li> <li>Void</li> <li>Environmental hazards:<br/>Not applicable.</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>   |   |  |         |
| ADRVoidIMDGVoidIMTAVoidIATAVoidClassVoidMDGVoidIMDGVoidIATAVoidI  | ΙΑΤΑ  | Void                                   |         |
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| IATA       Void         • Transport hazard class(es)       Join         ADR       Void         Class       Void         IMDG       Void         Class       Void         IATA       Void         Class       Void         IATA       Void         IATA       Void         IATA       Void         • Packing group       Void         ADR       Void         IMDG       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         • Environmental hazards:<br>Not applicable.       Void         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  |   |  |         |
| <ul> <li>Transport hazard class(es)</li> <li>ADR</li> <li>Class Void</li> <li>IMDG</li> <li>Class Void</li> <li>IATA</li> <li>Class Void</li> <li>IATA</li> <li>Class Void</li> <li>IATA</li> <li>Class Void</li> <li>IATA</li> <li>Packing group</li> <li>ADR Void</li> <li>IMDG Void</li> <li>IMDG Void</li> <li>IATA Void</li> <li>IMDG Void</li> <li>IATA Void</li> </ul>   |   |  |         |
| ADR         Class       Void         IMDG       Void         Class       Void         IATA       Void         Class       Void         IATA       Void         Packing group       Void         ADR       Void         IMDG       Void         IMDG       Void         IMDG       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         IATA       Void         • Environmental hazards:<br>Not applicable.       Not applicable.         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       IBC Code   |   | Void                                   |         |
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| Class       Void         Packing group       Void         ADR       Void         IMDG       Void         IATA       Void         I Environmental hazards:<br>Not applicable.       Void         Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code       IBC Code  | Class   | Void                                   |         |
| <ul> <li>Packing group</li> <li>ADR Void</li> <li>IMDG Void</li> <li>IATA Void</li> <li>Environmental hazards:<br/>Not applicable.</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>  | ΙΑΤΑ  |  |         |
| ADR       Void         IMDG       Void         IATA       Void         • Environmental hazards:<br>Not applicable.       Void         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code   | Class   | Void                                   |         |
| ADR       Void         IMDG       Void         IATA       Void         • Environmental hazards:<br>Not applicable.       Void         • Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code   | Packing group   |  |         |
| <ul> <li>IATA Void</li> <li>Environmental hazards:<br/>Not applicable.</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>  |   | Void                                   |         |
| <ul> <li>Environmental hazards:<br/>Not applicable.</li> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>   | IMDG  | Void                                   |         |
| Not applicable. <ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>   | ΙΑΤΑ  | Void                                   |         |
| <ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>   |   |  |         |
|   |   | II of MARDOL 72/79 and the IRC Code    |         |
|   | Iransport in bulk according to Annex<br>Not applicable. | II OF MARYOL / 3/ / 8 and the IBC COde |         |

### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing MSDS: Department: Marketing

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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# Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 05.08.2013 Printing date: 07.07.2016

| PRODUCT : Boc-Gin-Arg-Arg-AMC acetate salt  |                    |
|---|--------------------|
|   | (Contd. of page 5) |
| IMDG: International Maritime Code for Dangerous Goods   |                    |
| IATA: International Air Transport Association   |                    |
| IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) |                    |
| ICAO: International Civil Aviation Organisation   |                    |
| ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)     |                    |
| EINECS: European Inventory of Existing Commercial Chemical Substances                         |                    |
| CAS: Chemical Abstracts Service (division of the American Chemical Society)                   |                    |
| RTECS: Registry of Toxic Effects of Chemical Substances                                       |                    |
| vPvB: very Persistent and very Bioaccumulative  |                    |