

238200

**BACHEM** 

Revision: 11.04.2011 Printing date: 07.07.2016

| 01 I                  | dentification of the substance/mixture and of the company/undertaking  |  |
|-----------------------|--|--|
|                       | Product identifier   |  |
| ·                     | r loudet identilier  |  |
|                       | Trade name:  |  |
|                       | 5-Bromo-4-chloro-1H-indol-3-yl phosphate · dipotassium salt  |  |
|                       |  |  |
| •                     | Article number:  |  |
|                       | new: 4013559 old: M-1780   |  |
|                       |  |  |
|                       | CAS Number:  |  |
|                       | 102185-49-9  |  |
|                       |  |  |
|                       | Relevant identified uses of the substance or mixture and uses advised against  |  |
|                       | Application of the substance / the preparation   |  |
|                       | Laboratory chemicals   |  |
| •                     | Details of the supplier of the safety data sheet   |  |
| -                     |  |  |
| •                     | Manufacturer/Supplier:   |  |
|                       | Bachem AG  |  |
|                       | Hauptstrasse 144   |  |
|                       | CH-4416 Bubendorf  |  |
|                       | Switzerland  |  |
|                       | E-mail msds@bachem.com   |  |
|                       | Tel +41 58 595 2021<br>Fax +41 58 595 2040   |  |
|                       | Fax #41 56 595 2040  |  |
|                       | Further information obtainable from:   |  |
|                       | Department: Marketing  |  |
|                       |  |  |
|                       |  |  |
|                       | Emergency telephone number   |  |
| •                     | Emergency telephone number:  |  |
| •                     | Emergency telephone number:<br>+41 44 251 51 51 (Tox Info Suisse)  |  |
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| 02 H                  | +41 44 251 51 51 (Tox Info Suisse) Hazards identification Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07 GHS07  |  |
| 02 F<br>:<br><        | +41 44 251 51 51 1 (Tox Info Suisse)<br>Hazards identification<br>Classification of the substance or mixture<br>Classification according to Regulation (EC) No 1272/2008<br>GHS07<br>Skin Irrit. 2 - H315 Causes skin irritation.<br>Eye Irrit. 2 - H315 Causes serious eye irritation.<br>STOT SE 3 - H335 May cause respiratory irritation.  |  |
| 02 F<br>:<br><        | +41 44 251 51 51 (Tox Info Suisse)<br>Hazards identification<br>Classification of the substance or mixture<br>Classification according to Regulation (EC) No 1272/2008<br>GHS07<br>Skin Irrit. 2 - H315 Causes skin irritation.<br>Eye Irrit. 2 - H319 Causes serious eye irritation.  |  |
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### Safety data sheet according to 1907/2006/EC, Article 31

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### PRODUCT : 5-Bromo-4-chloro-1H-indol-3-yl phosphate · dipotassium salt

(Contd. of page 1)

- Other hazards
- Results of PBT and vPvB assessment
- PBT:
- Not applicable
- vPvB:
- Not applicable.

### 03 Composition/information on ingredients

Description

- · Chemical characterization: Substances
- CAS No.
- 102185-49-9 5-Bromo-4-chloro-1H-indol-3-yl phosphate · dipotassium salt
- Identification number(s)
- · EINECS Number:
- · RTECS Number:

### 04 First aid measures

- · After inhalation:
- In case of unconsciousness place patient stably in side position for transportation.
  After skin contact: Immediately wash with water and soap and rinse thoroughly.
- Seek immediate medical advice.

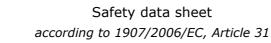
   After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
- Call a doctor immediately.
- Information for doctor:
- Most important symptoms 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

- · 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.
- No special measures required.

### 06 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
   Use respiratory protective device against the effects of fumes/dust/ aerosol.
   Wear protective clothing.
- Environmental precautions:
- Suppress gases/fumes/haze with water spray.
- Methods and material for containment and cleaning up: Pick up mechanically.



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| Handling:         • Handling:         • Precautions for safe handling<br>Open and handle receptacle with care.<br>Prevent formation of ust.         • Information about fire - and explosion protection:<br>Keep respiratory protective device available.         • Storage:         • Requirements to be met by storerooms and receptacles:<br>No special requirements.         • Information about storage in one common storage facility:<br>Store away from foodstuffs.         • Further information about storage conditions:<br>Keep container lightly sealed.         Stora of y conditions.         Recommended storage temperature:<br>+5 + /3 *C         • Specific end use(s)<br>No further relevant information available. <b>Exposure controls/personal protection</b> • Additional information:<br>The lists valid during the making were used as basis.         • Personal protective equipment:         • General protective equipment:         • General protective end hygienic measures:<br>Keep away from foodstuffs, beverages and feed.<br>Immediately remove all solied and contaminated clothing<br>Store protective clothing segarately.<br>Avoid contact with the eyes and skin.         • Respiratory protection:<br>In case of bird exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained<br>respiratory protection:<br>In case of bird exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained<br>respiratory protection:<br>In case of bird exposure or low pollution use respiratory filter device. In case of intensive or longer exposure  |  | (Contd. of page 2  |
|--|--|--|
| <ul> <li>Handling:</li> <li>Precautions for safe handling Open and handle receptacle with care. Prevent formation of dust.</li> <li>Information about fire - and explosion protection: Keep respiratory protective device available.</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: No special requirements.</li> <li>Information about fire - and explosion protection: Keep respiratory protective device available.</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles: No special requirements.</li> <li>Information about storage in one common storage facility: Store away from foodstuffs.</li> <li>Further information about storage conditions: Keep container tightly sealed. Store in dy conditions.</li> <li>Recommended storage temperature: 45 +/-3 *C Specific end use(s) No further relevant information available.</li> </ul> Exposure controls/personal protection Exposure controls/personal protection Store avay fund foodsuffs, beverages and feed. Immediately remove all solied and contaminated clothing Store protective clothing separately. Avaid contact with the yees and skin. Respiratory protective device in case of insufficient ventilation. Personal protective expirately. Avaid contact with the yees and skin. 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 in case of insufficient ventilation. Protection of hands: The glove material on consideration of the protect/the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation. Due to missing tests no recommendation to the product/the substance/ the preparation. Due to missing tests no recommendation to the protective diffusion and the degradation Protective gloves The glove material on consideration of the penetration times, rates of diffusion and the degradat   | 07 Handling and storage  |  |
| <ul> <li>Precautions for safe handling<br/>Open and handle receptacle with care.<br/>Prevent formation of dust.</li> <li>Information about fire - and explosion protection:<br/>Keep respiratory protective device available.</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles:<br/>No special requirements.</li> <li>Information about storage in one common storage facility:<br/>Store away from foodstuffs.</li> <li>Further information about storage conditions:<br/>Keep container tightly sealed.</li> <li>Store away from foodstuffs.</li> <li>Further information about storage conditions:<br/>Keep container tightly sealed.</li> <li>Store in dry conditions.</li> <li>Recommended storage temperature:<br/>45 + 3 * C</li> <li>Specific end use(s)<br/>No further relevant information available.</li> </ul> Exposure controls/personal protection Exposure controls/personal protection Exposure during values that require monitoring at the workplace:<br>Not required. Additional information:<br>The lists valid during the making were used as basis. Personal protective equipment:<br>General protective equipment:<br>Reage away from foodstuffs, beverages and feed.<br>Immediately remove all solied and contaminated clothing<br>Store protective clothing separately.<br>Avoid contact with the yess and skin. Respiratory protective device in case of intensive or longer exposure use self-contained<br>respiratory protective device in case or insufficient ventilation. Protective on finance:<br>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br>Due to missing tests no recommendation to the glove material can be given for the product/ the chemical mixture<br>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation<br>Protective gloves Material of gloves Material of gloves Material of glove material The selection of the subtale gloves does not only depend on the material, but also on further marks of quality and var  |  |  |
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| <ul> <li>Information about fire - and explosion protection:<br/>Keep respiratory protective device available.</li> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles:<br/>No special requirements.</li> <li>Information about storage in one common storage facility:<br/>Store away from foodstuffs.</li> <li>Further information about storage conditions:<br/>Keep container tightly sealed.</li> <li>Store in dry conditions.</li> <li>Recommended storage temperature:<br/>+5 +/3 °C</li> <li>Specific end use(s)<br/>No further relevant information available.</li> </ul> Exposure controls/personal protection Exposure controls/personal protection Controls/personal protection Second and the storage statistical addition of the given statistical addition of the substance of the statistical addition of the substance of the protection of the substance of the substance of the protective contained and containing at the workplace:<br>Not required. Ingredients with limit values that require monitoring at the workplace:<br>Not required. Ingredients with limit values that require monitoring at the workplace:<br>Not required. I define a statistic during the making were used as basis. Personal protective equipment: General protective addition as an addition of the statistic during the making were used as basis. Personal protective addition addition addition addition of the substance of the properties of the statistic during the making were used as basis. Personal protective addition addition addition addition of the substance of the properties of the substance of the properties. Respiratory protection: In case of brief exposure or two polition use respirator filter device. In case of intensive or longer exposure use self-contained respiratory protection: In case of the digives material on consideration of the gove mater  |  |  |
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| Keep container tightly sealed.<br>Store in dry conditions.<br>Recommended storage temperature:<br>+5 +/- 3 °C<br>Specific end use(s)<br>No further relevant information available.   |  |  |
| Store in dry conditions.         Recommended storage temperature:         45 4-3 *C         Specific end use(s)         No further relevant information available.    Exposure controls/personal protection Ingredients with limit values that require monitoring at the workplace: Not required. Additional information: The lists valid during the making were used as basis. Personal protective equipment: General protective and hygienic measures: Keep away from foostfurfs, beverages and feed. Immediately remove all solied and contaminated clothing Store protective device. Avoid contact with the eyes and skin. 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. Use suitable respiratory protective device. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the chemical mixture Selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Safety glasses  |  |  |
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| Tightly sealed goggles   | <ul> <li>Immediately remove all soiled and contaminated clothing</li> <li>Store protective clothing separately.</li> <li>Avoid contact with the eyes and skin.</li> <li>Respiratory protection:</li> <li>In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low respiratory protective device.</li> <li>Use suitable respiratory protective device in case of insufficient ventilation.</li> <li>Protection of hands:</li> <li>The glove material has to be impermeable and resistant to the product/ the substance/ the pre Due to missing tests no recommendation to the glove material can be given for the product/ the Selection of the gloves</li> <li>Material of gloves</li> <li>The selection of the suitable gloves does not only depend on the material, but also on further n manufacturer to manufacturer.</li> <li>Penetration time of glove material</li> <li>The exact break through time has to be found out by the manufacturer of the protective gloves</li> </ul> | paration.<br>e preparation/ the chemical mixture.<br>the degradation<br>narks of quality and varies from |

| General Information |                  |  |
|---------------------|------------------|--|
| Appearance:         |                  |  |
| Form:               | Powder           |  |
| Colour:             | Dark green       |  |
| Odour:              | Nearly odourless |  |
| Odour threshold:    | Not determined.  |  |
| Molecular Weight    | 402,6500 g/mol   |  |
| Change in condition |                  |  |



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

238200

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|-------|-----|---|
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|                                  |                 | (Contd. of page 3) |
|----------------------------------|-----------------|--------------------|
| Melting point/Melting range:     | Undetermined.   |                    |
| Boiling point/Boiling range:     | Undetermined.   |                    |
| Flash point:                     | Not applicable. |                    |
| Flammability (solid, gaseous):   | Not applicable. |                    |
| gnition 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. |                    |
| /iscosity:                       |                 |                    |
| Dynamic:                         | Not determined. |                    |
| Kinematic:                       | Not determined. |                    |

### 10 Stability and reactivity

 Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- Possibility of hazardous reactions
- No dangerous reactions known.Conditions to avoid
- No further relevant information available. • Incompatible materials:
- No further relevant information available.
- Dangerous decomposition products:
- No dangerous decomposition products known.

### 11 Toxicological information

- Acute toxicity:
- No further relevant information available.
- Primary irritant effect:
- on the skin:
- Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization:
- No sensitizing effects known.

### 12 Ecological information

- Acquatic toxicity:
- No further relevant information available.Persistence and degradability
- No further relevant information available.
- Behaviour in environmental systems:Bioaccumulative potential
- Disaccumulative potential No further relevant information available.
  Mobility in soil
- No further relevant information available.

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|  |   |                                      | Printing date: 07.07                          |
|--|---|--------------------------------------|---|
| RODUCT   | 5-Bromo-4-chloro-1H-indol-  | -yl phosphate · dipotassium salt     |   |
|  |   |                                      | (Contd. of page 4)                            |
| <ul> <li>Additic</li> </ul>  | nal ecological information:   |                                      |   |
| <ul> <li>Generation</li> </ul>   | I notes:  |                                      |   |
| Not kno  | wn to be hazardous to water.  |                                      |   |
| <ul> <li>Result</li> </ul>   | of PBT and vPvB assessment  |                                      |   |
| <ul> <li>PBT:</li> </ul>   |   |                                      |   |
| Not app  | icable.   |                                      |   |
| <ul> <li>vPvB:</li> </ul>  |   |                                      |   |
| Not app  | icable.   |                                      |   |
| Other  | dverse effects  |                                      |   |
| No furth   | er relevant information available.  |                                      |   |
| 3 Dispo  | al considerations   |                                      |   |
|  |   |                                      |   |
|  | treatment methods   |                                      |   |
|  | disposal key:   |                                      |   |
| 18 02 0  | j   |                                      |   |
| • Unclea   | ned packaging:  |                                      |   |
|  | mendation:  |                                      |   |
|  | I must be made according to official reg  | ulations.                            |   |
|  |   |                                      |   |
| 4 Transi   | oort information  |                                      |   |
| ADR/RIL  |   |                                      |   |
| IMDG CI  |   | _                                    |   |
|  |   |                                      |   |
| ICAO/IA  | A Class:  | -                                    |   |
| <ul> <li>Enviro</li> </ul>   | mental hazards:   |                                      |   |
| Not app  | icable.   |                                      |   |
| <ul> <li>Transp</li> </ul>   | ort in bulk according to Annex II of  | MARPOL73/78 and the IBC Code         |   |
| Not app  | icable.   |                                      |   |
| E Dogul  | tory information  |                                      |   |
| _  | tory information  |                                      |   |
| <ul> <li>Chemi</li> </ul>  | al safety assessment:   |                                      |   |
| A Chen   | ical Safety Assessment has not been o   | arried out.                          |   |
|  |   |                                      |   |
| .6 Other   | information   |                                      |   |
|  | ation is based on our present knowled<br>ot establish a legally valid contractual r   | -                                    | juarantee for any specific product features   |
| <ul> <li>Depart</li> </ul>   | ment issuing MSDS:  |                                      |   |
| •  | nent: Marketing   |                                      |   |
| -  | iations and acronyms:   |                                      |   |
|  | -   | chandises dangereuses par Route (Fu  | ropean Agreement concerning the Internationa  |
| ADR: A   | of Dangerous Goods by Road)   | 2 pair 10000 (Edi                    |   |
|  |   | sport des marchandises dangereuses r | par chemin de fer (Regulations Concerning the |
| Carriag  | onal Transport of Dangerous Goods by  |                                      |   |
| Carriag<br>RID: Ré   |   |                                      |   |
| Carriag<br>RID: Rè<br>Internat   |   |                                      |   |
| Carriag<br>RID: Re<br>Internat<br>IMDG:  | nternational Maritime Code for Danger<br>ternational Air Transport Association  |                                      |   |
| Carriag<br>RID: Ré<br>Internat<br>IMDG:<br>IATA: Ir                                | nternational Maritime Code for Dangero<br>ternational Air Transport Association   |                                      |   |
| Carriag<br>RID: Ré<br>Internat<br>IMDG:<br>IATA: Ir<br>ICAO: I                     | nternational Maritime Code for Danger   | ercial Chemical Substances           |   |
| Carriag<br>RID: Ré<br>Internat<br>IMDG:<br>IATA: Ir<br>ICAO: I<br>EINECS           | nternational Maritime Code for Dangero<br>ternational Air Transport Association<br>nternational Civil Aviation Organisation                                       |                                      |   |
| Carriag<br>RID: Ré<br>Internat<br>IMDG:<br>IATA: Ir<br>ICAO: I<br>EINECS<br>CAS: C | nternational Maritime Code for Danger<br>ternational Air Transport Association<br>nternational Civil Aviation Organisation<br>European Inventory of Existing Comm | e American Chemical Society)         |   |