1 Identification of the substance/mixture and of the company/undertaking

- Product identifier
- Trade name: Bromocriptine mesilate Assay Standard
- Reference number: Cat 050
- CAS Number: 22260-51-1
- EC number: 244-881-1
- Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the preparation Reference material for laboratory use only
- Manufacturer/Supplier:
  British Pharmacopoeia Commission
  10 South Colonnade, Canary Wharf
  London E14 4PU
  United Kingdom
- Further information obtainable from: eMail: bpcrs@mhra.gov.uk
- Emergency telephone number: +44 (0) 20 3080 6561 (Monday - Friday: 8am - 5pm)

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - GHS09 environment
    Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
  - GHS07
    Acute Tox. 4 H302 Harmful if swallowed.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - Xn; Harmful
    R22: Harmful if swallowed.
  - N; Dangerous for the environment
    R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Information concerning particular hazards for human and environment: Not applicable.

- Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms
  - GHS07
  - GHS09
- Signal word Warning

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according to 1907/2006/EC, Article 31

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- **Hazard statements**
  - H302 Harmful if swallowed.
  - H410 Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**
  - P273 Avoid release to the environment.
  - P264 Wash thoroughly after handling.
  - P270 Do not eat, drink or smoke when using this product.
  - P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
  - P330 Rinse mouth.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
  - CAS No. Description
  - 22260-51-1 Bromocriptine mesilate
  - **Identification number(s) -**
  - EC number: 244-881-1
  - RTECS: KE1595000
  - **Additional information: For the wording of the listed risk phrases refer to section 16.**

4 First aid measures

- **Description of first aid measures**
  - **General information:**
    - Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.
  - **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:** Rinse mouth. Do not induce vomiting.
    - Call for 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.

5 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**
    - Formation of toxic gases is possible during heating or in case of fire.

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6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Wear protective clothing.
- Environmental precautions:
  - Inform respective authorities in case of seepage into water course or sewerage system.
  - Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  - Dispose of contaminated material as waste according to item 13.
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling: Store in cool, dry place in tightly closed receptacles.
- 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:
  - Store in a cool location.
  - Please refer to the manufacturer’s certificate for specific storage and transport temperature conditions.
  - Store only in the original receptacle.
  - Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: Lists used were valid at the time of SDS preparation.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    - Keep away from foodstuffs, beverages and feed.
    - Wash hands before breaks and at the end of work.
  - Respiratory protection: Not required.
  - Protection of hands:
    - The glove material has to be impermeable and resistant to the product/substance/preparation.
    - Due to missing tests no recommendation to the glove material can be given for the product/preparation/chemical mixture.
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves**
  The 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
  - **Appearance:**
    - **Form:** Crystalline powder
    - **Colour:** Off white
    - **Odour:** Odourless
    - **Odour threshold:** Not determined.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** Not determined.
    - **Boiling point/Boiling range:** Not determined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Not determined.
  - **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 applicable.
  - **Density:** Not determined.
  - **Relative density:** Not determined.
  - **Vapour density:** Not applicable.
  - **Evaporation rate:** Not applicable.
  - **Solubility in / Miscibility with water:** Not determined.
  - **Partition coefficient (n-octanol/water):** 5.3 Log P
  - **Viscosity:**
    - **Dynamic:** Not applicable.
    - **Kinematic:** Not applicable.
  - **Other information**
    - No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** Stable under normal conditions.
11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>2000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - on the skin: No irritating effect.
  - on the eye: No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50/48 h</td>
<td>14 mg/l (daphnia)</td>
</tr>
<tr>
<td>LC50/96 h</td>
<td>0.38 mg/l (fish)</td>
</tr>
</tbody>
</table>

- **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.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
  Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
  Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  Danger to drinking water if even extremely small quantities leak into the ground.
  Also poisonous for fish and plankton in water bodies.
  Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**

  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**

  Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
**14 Transport information**

- **UN-Number**
  - ADR, IMDG, IATA: UN3077

- **ADR**
  - 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bromocriptine mesilate)

- **IMDG, IATA**
  - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bromocriptine mesilate)

- **Transport hazard class(es)**
  - **ADR, IATA**
    - Class: 9
    - Label: Miscellaneous dangerous substances and articles.

- **IMDG**
  - Class: 9
  - Label: Miscellaneous dangerous substances and articles.

- **Packing group**
  - ADR, IMDG, IATA: III

- **Environmental hazards:**
  - Marine pollutant: No
  - Special marking (ADR): Symbol (fish and tree)
  - Special marking (IATA): Symbol (fish and tree)

- **Special precautions for user**
  - Danger code (Kemler): Warning: Miscellaneous dangerous substances and articles.
  - EMS Number: F-A,S-A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - ADR
    - Excepted quantities (EQ): E1
    - Limited quantities (LQ): 5 kg
    - Transport category: 3
    - Tunnel restriction code: E
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- **UN "Model Regulation":** UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bromocriptine mesilate), 9, III

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Philippines Inventory of Chemicals and Chemical Substances Substance is not listed.
- Australian Inventory of Chemical Substances Substance is listed.
- Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. British Pharmacopoeia Commission Office makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

- **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)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - PP: Severe Marine Pollutant
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

- **Sources**