1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Code(s)  AB143028
Product name  Pyridostigmine bromide (Mestinon)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use  For research use only
Uses advised against  No information available

1.3 Details of the supplier of the safety data sheet

Supplier  Abcam plc
330 Cambridge Science Park
Cambridge
CB4 0FL
UK
Tel: +44 (0)1223 696000
Fax: +44 (0)1223 215215

For further information, please contact: technical@abcam.com

1.4 Emergency telephone number

Emergency telephone  - Tel: +44 (0)1223 696000 (08.00-17.00)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS / CLP - REGULATION (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

2.2 Label elements
Pyridostigmine bromide (Mestinon)

Signal Word
Danger

Hazard statements
H300 - Fatal if swallowed
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child

Precautionary Statements - EU (§28, 1272/2008)
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
P308 + P313 - IF exposed or concerned: Get medical advice/ attention
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P280 - Wear protective gloves/ eye protection/ face protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P272 - Contaminated work clothing should not be allowed out of the workplace

2.3 Other information
Caution - substance not yet tested completely

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification (Reg. 1272/2008)</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyridostigmine bromide</td>
<td>-</td>
<td>101-26-8</td>
<td>100</td>
<td>Acute Tox. 2 (H300) Skin Sens. 1 (H317) Repr. 2 (H361fd)</td>
<td>no data available</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice                                 Immediate medical attention is required.
**Eye contact**  Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

**Skin contact**  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.

**Ingestion**  Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Inhalation**  Move to fresh air.

**Protection of first-aiders**  Use personal protective equipment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.2 **Most important symptoms and effects, both acute and delayed**

**Main symptoms**  No information available.

4.3 **Indication of any immediate medical attention and special treatment needed**

**Notes to physician**  May cause sensitization of susceptible persons. Treat symptomatically.

---

5. **FIRE-FIGHTING MEASURES**

5.1 **Extinguishing media**

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which shall not be used for safety reasons**
No information available.

5.2 **Special hazards arising from the substance or mixture**

**Special hazard**
Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 **Advice for fire-fighters**

**Special protective equipment for fire-fighters**
Wear self-contained breathing apparatus and protective suit.

---

6. **ACCIDENTAL RELEASE MEASURES**

6.1 **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Refer to protective measures listed in sections 7 and 8.

6.2 **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

6.3 **Methods and materials for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).
7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

7.3 Specific end uses
Specific use(s)  No information available.
Exposure scenario  No information available.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

8.1 Control parameters
Exposure limits  National occupational exposure limits
Derived No Effect Level  No information available
Predicted No Effect Concentration  No information available

8.2 Exposure controls
Engineering measures  Ensure adequate ventilation, especially in confined areas.
Personal protective equipment  
- Eye protection  Safety glasses with side-shields.
- Hand protection  Impervious gloves.
- Skin and body protection  Impervious clothing.
- Respiratory protection  No special protective equipment required.
- Thermal hazards  No information available

Hygiene measures  When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls  Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Precautionary Statements

None under normal processing.

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials

None in particular

10.6 Hazardous decomposition products


11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product Information

Very toxic if swallowed. May cause sensitization of susceptible persons.

Inhalation

There is no data available for this product.

Eye contact

There is no data available for this product.
Pyridostigmine bromide (Mestinon)  

Revision Date 13-Jul-2015

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyridostigmine bromide</td>
<td>37.5 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.3  Bioaccumulative potential

No information available.

12.4  Mobility in soil

No information available.

12.5  Results of PBT and vPvB assessment

No information available.

13. DISPOSAL CONSIDERATIONS

13.1  Waste treatment methods

As supplied, the preparation is not expected to present significant adverse environmental effects.
Pyridostigmine bromide (Mestinon)

Revision Date  13-Jul-2015

Waste from residues / unused products
Dispose of in accordance with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

ADR
Proper shipping name
Toxic solid, organic, n.o.s. (Pyridostigmine bromide)
Hazard class
6.1
UN/ID No
2811
Packing group
II

IATA
Proper shipping name
Toxic solid, organic, n.o.s. (Pyridostigmine bromide)
Hazard class
6.1
UN/ID No
2811
Packing group
II

DOT
Proper shipping name
Toxic solid, organic, n.o.s. (Pyridostigmine bromide)
Hazard class
6.1
UN/ID No
2811
Packing group
II

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No information available.

15.2 Chemical Safety Assessment
No information available.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
H300 - Fatal if swallowed
H317 - May cause an allergic skin reaction
H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child

Hazard statements
H300 - Fatal if swallowed
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child

Revision Date  13-Jul-2015
Pyridostigmine bromide (Mestinon)

Revision Note

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS