


<p>Page 1 of 5</p> <p>Print Date 29.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Neostigminbromid, API</p>	 <p>Revision Date 29.11.2018</p>
---	--	---

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

· **Informations to product No. 6481**

· **Product name:**

Neostigminbromid, API Neostigmini bromidum

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H300 Fatal if swallowed

H310 Fatal in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H330 Fatal if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation

· **P-Phrases:**


P264 Wash thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302 IF ON SKIN

P352 Wash with soap and water

P305 IF IN EYES

Page 2 of 5 Print Date 29.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Neostigminbromid, API	 Revision Date 29.11.2018
--	---	---

P351 Rinse continuously with water for several minutes

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

Acute Tox. 2 (Skin, Oral)

Acute Tox. 1 (Inhal.)

Skin Irrit. 2

Eye Irrit. 2

Resp. Sens. 1

STOT SE 3

3 Composition / information on ingredients

• **Chemical characterization:**

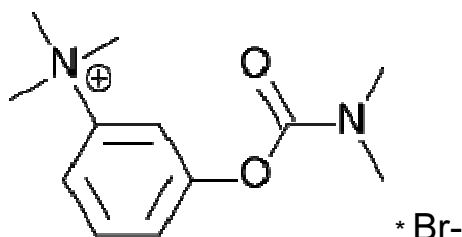
CAS-No. Substance name

114-80-7 Neostigminbromid

• **EINECS-No.:** 204-054-8

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** -




4 First aid measures

- **General advices:** Take off contaminated clothes immediately. Remove respiratory protection not before removal of contaminated clothings. Give oxygen if irregular breathing or apnoea is observed.
- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Wash away with water and soap immediately and rinse off. Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Induce vomiting, get medical help immediately.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.

<p>Page 3 of 5</p> <p>Print Date 29.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Neostigminbromid, API</p>	 <p>Revision Date 29.11.2018</p>
---	--	---

• **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
- **Informations to fire or explosion protection:** Take measures to prevent electrostatic charging.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a cool and dry place. Store only in original containers. Accessible only for professional persons.

8 Exposure controls / personal protective equipment


- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 171 - 176 °C
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** (25 °C) > 250 g/l

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid contact with air, oxygen, oxidants and strong acids.
- **Hazardous decomposition products:** Bromine, hydrogen bromide.

<p>Page 4 of 5</p> <p>Print Date 29.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Neostigminbromid, API</p>	 <p>Revision Date 29.11.2018</p>
---	--	---

11 Toxicological information

- **Acute toxicity:**

- **LD/LD50-data relevant for hazard classification:**

114-80-7 Neostigminbromid (INN)

Oral: LD50: 7 - 90 mg/kg (div)

12 Ecological information

- **General advices:** Prevent from leaking into ground water, environment waters or drainage, even not in small quantities. Danger for drinking water even if smallest quantities are penetrating into soil.

- **Water hazard class:** 3 (self classification): very hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Toxic solids, organic, n.o.s., Neostigminbromid
- **Class:** 6.1
- **UN-number:** 2811
- **Packing group:** II
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 1 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS06, GHS08

- **Signal word:** Danger

- **H-Phrases:**


H300 Fatal if swallowed

H310 Fatal in contact with skin

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

<p>Page 5 of 5</p> <p>Print Date 29.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Neostigminbromid, API</p>	 <p>Revision Date 29.11.2018</p>
---	--	---

H330 Fatal if inhaled

H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled

H335 May cause respiratory irritation

· **P-Phrases:**

P264 Wash thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P302 IF ON SKIN

P352 Wash with soap and water

P305 IF IN EYES

P351 Rinse continuously with water for several minutes

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

· **National regulations (Germany):**

· **Water hazard class:** see chapter 12

· **Storage class TRGS 510:** 6.1A

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.