

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

Product name : Neostigmine bromide

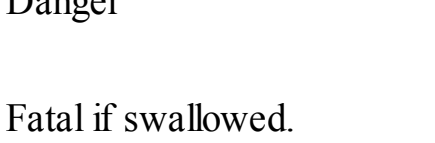
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008  
Acute toxicity, Inhalation (Category 1)  
Acute toxicity, Dermal (Category 2)  
Acute toxicity, Oral (Category 2)  
Skin irritation (Category 2)  
Eye irritation (Category 2)  
Respiratory sensitization (Category 1)  
Skin sensitization (Category 1)  
Specific target organ toxicity - single exposure (Category 3)

According to European Directive 67/548/EEC as amended.  
Very toxic by inhalation, in contact with skin and if swallowed. May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system and skin.

Label elements

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Pictogram                  |                                                 |
| Signal word                | Danger                                                                                                                           |
| Hazard statement(s)        |                                                                                                                                  |
| 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.                                                                                                |
| Precautionary statement(s) |                                                                                                                                  |
| P260                       | Do not breathe dust/fume/gas/mist/vapours/spray.                                                                                 |
| P264                       | Wash hands thoroughly after handling.                                                                                            |
| P280                       | Wear protective gloves/protective clothing.                                                                                      |
| P284                       | Wear respiratory protection.                                                                                                     |
| P302 + P350                | IF ON SKIN: Gently wash with plenty of soap and water.                                                                           |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Hazard symbol(s)           |                                                                                                                                  |
| T+                         | Very toxic                                                                                                                       |
| R-pharse(s)                |                                                                                                                                  |
| R26/27/28                  | Very toxic by inhalation, in contact with skin and if swallowed.                                                                 |
| R42/43                     | May cause sensitization by inhalation and skin contact.                                                                          |
| R36/37/38                  | Irritating to eyes, respiratory system and skin.                                                                                 |
| S-pharse(s)                |                                                                                                                                  |
| S45                        | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).                      |
| S26                        | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                    |
| S22                        | Do not breathe dust.                                                                                                             |
| S36/37/39                  | Wear suitable protective clothing, gloves and eye/face protection.                                                               |

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : 3-(N,N-Dimethylcarbamoyloxy)-N,N,N,-trimethylanilinium bromide  
Prostigmine

Formula : C12H19BrN2O2

Molecular Weight : 303,2 g/mol

| CAS-No.                      | EC-No.    | Classification                                                                                                                                                                                          | Concentration |
|------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Neostigminbromid<br>114-80-7 | 204-054-8 | -                                                                                                                                                                                                       | -             |
|                              |           | Acute Tox. 1; Acute Tox. 2;<br>Skin Irrit. 2; Eye Irrit. 2; Resp.<br>Sens. 1; Skin Sens. 1; STOT<br>SE 3; H300, H310, H315,<br>H317, H319, H330, H334,<br>H335<br>T+, R26/27/28 - R42/43 -<br>R36/37/38 |               |

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

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form powder

Safety data

pH no data available

Melting point 175 - 177 °C - lit.

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Inhalation: no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May produce an allergic reaction.

May cause allergic respiratory and skin reactions

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation May be fatal if inhaled. Causes respiratory tract irritation.

Ingestion May be fatal if swallowed.

Skin Causes skin irritation. May be fatal if absorbed through skin.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: BR3150000

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Neostigminbromid)

IMDG

UN-Number: 2811 Class: 6.1 Packing group: II EMS-No: F-A, S-A  
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Neostigminbromid)  
Marine pollutant: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: II  
Proper shipping name: Toxic solid, organic, n.o.s. (Neostigminbromid)

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

Text of H-code(s) and R-pharse(s) mentioned in Section 3

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| Acute Tox.  | Acute toxicity                                                             |
| Eye Irrit.  | Eye irritation                                                             |
| 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.                                          |
| Resp. Sens. | Respiratory sensitization                                                  |
| Skin Irrit. | Skin irritation                                                            |
| T+          | Very toxic                                                                 |
| R26/27/28   | Very toxic by inhalation, in contact with skin and if swallowed.           |
| R36/37/38   | Irritating to eyes, respiratory system and skin.                           |
| R42/43      | May cause sensitization by inhalation and skin contact.                    |

Further information

For R&D use only. Not for drug, household or other uses.



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WARRANTY:

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