**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product form</strong></td>
</tr>
<tr>
<td><strong>Trade name</strong></td>
</tr>
<tr>
<td><strong>EC no</strong></td>
</tr>
<tr>
<td><strong>CAS No</strong></td>
</tr>
<tr>
<td><strong>Product code</strong></td>
</tr>
<tr>
<td><strong>Other means of identification</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2. Relevant identified uses of the substance or mixture and uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2.1. Relevant identified uses</td>
</tr>
<tr>
<td><strong>Main use category</strong></td>
</tr>
<tr>
<td>The product is intended for research, analysis and scientific education.</td>
</tr>
<tr>
<td><strong>Use of the substance/mixture</strong></td>
</tr>
<tr>
<td>For professional use only</td>
</tr>
<tr>
<td><strong>Function or use category</strong></td>
</tr>
<tr>
<td>Laboratory chemicals</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.2.2. Uses advised against</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.3. Details of the supplier of the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Directorate for the Quality of Medicines &amp; Healthcare</td>
</tr>
<tr>
<td>EDOM, Council of Europe</td>
</tr>
<tr>
<td>F-67081 Strasbourg</td>
</tr>
<tr>
<td>T +33(0)388412035 - F +33(0)388412771</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1.4. Emergency telephone number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Emergency number</strong></td>
</tr>
<tr>
<td>+44(0)1235239670</td>
</tr>
</tbody>
</table>

**SECTION 2: Hazards identification**

<table>
<thead>
<tr>
<th>2.1. Classification of the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification according to Regulation (EC) No. 1272/2008 [CLP]</strong></td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral) H302</td>
</tr>
<tr>
<td>Full text of H-phrases: see section 16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.2. Label elements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard pictograms (CLP)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.2. Label elements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word (CLP)</strong></td>
</tr>
<tr>
<td><strong>Hazard statements (CLP)</strong></td>
</tr>
<tr>
<td><strong>Precautionary statements (CLP)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.3. Other hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other hazards not contributing to the classification</td>
</tr>
</tbody>
</table>
# FENOTEROL HYDROBROMIDE CRS

## Safety Data Sheet


### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Directive 67/548/EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FENOTEROL HYDROBROMIDE</td>
<td>(CAS No)1944-12-3</td>
<td>≤ 100</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>(Main constituent)</td>
<td>(EC no)217-742-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- **First-aid measures after inhalation**: Move to fresh air in case of accidental inhalation. Assure fresh air breathing.
- **First-aid measures after skin contact**: Rinse skin with water/shower.
- **First-aid measures after eye contact**: Rinse with water while holding the eyes wide open. Contact lenses should be removed.
- **First-aid measures after ingestion**: Rinse mouth out with water.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries: See Heading 2.

#### 4.3. Indication of any immediate medical attention and special treatment needed

In all cases of doubt, or when symptoms persist, seek medical attention.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Precautionary measures fire
  - Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable.
- Firefighting instructions
  - Dilute with water.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- **General measures**: Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Large amounts: Not applicable.

#### 6.1.1. For non-emergency personnel

Protective equipment
- See Headings 7 and 8.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up
  - Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Clean with water.

#### 6.4. Reference to other sections

No additional information available

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25/07/2013
EN (English)
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Small amounts: See Heading 1. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Precautions for safe handling: Handle and open container with care. See Heading 8.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: To guarantee the quality and properties of the product, keep dry. Keep in a cool, well-ventilated place away from heat. Store in original container.

Incompatible products: Strong oxidizing agents.

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection: Gloves.
Skin and body protection: Lab coat.
Respiratory protection: Quarter mask (DIN EN 140).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: Crystalline powder, white. Powder.
Colour: No data available
Odour: No data available
Odour threshold: No data available
pH: 5
Relative evaporation rate (butylacetate=1): No data available
Melting point: 221 °C
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Self ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: Ethanol, (96%), Water: ≥ 1 mg/l
Log Pow: < 1,2 at 20°C
Log Kow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.
10.2. Chemical stability
No additional information available

10.3. Possibility of hazardous reactions
Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

10.4. Conditions to avoid
No additional information available

10.5. Incompatible materials
Small amounts: None under normal use. Large amounts: Not applicable.

10.6. Hazardous decomposition products
When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Harmful if swallowed.

<table>
<thead>
<tr>
<th>FENOTEROL HYDROBROMIDE CRS(1944-12-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1600 mg/kg</td>
</tr>
<tr>
<td>ATE (oral)</td>
<td>500,000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
pH: 5

Serious eye damage/irritation: Not classified
pH: 5

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential Adverse human health effects and symptoms: Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: Not applicable.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Small amounts: See Heading 2. Large amounts: Not applicable.
Ecology - water: Soluble in water.

<table>
<thead>
<tr>
<th>FENOTEROL HYDROBROMIDE CRS(1944-12-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>FENOTEROL HYDROBROMIDE CRS(1944-12-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradation</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>FENOTEROL HYDROBROMIDE CRS(1944-12-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number
No dangerous good in sense of transport regulations

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Other information: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport
No additional information available

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)  Acute toxicity (oral), Category 4
H302  Harmful if swallowed
R22  Harmful if swallowed
Xn  Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.