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

1.1. Product identifier

Silber70

CAS No: 7439-97-6
Index No: 080-001-00-0
EC No: 231-106-7

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

Further Information

pre-dosed PE-pillows for automatic activation.
Diameter: 9.5 +/- 0.25 mm
Upper foil thickness: 50 µm +/- 10 %
Lower foil thickness: Depends on amount of mercury contained in pillow.
- up to ca. 300 mg HG: ca. 50 µm +/- 10 %
- up to ca. 400 mg HG: ca. 60 µm +/- 10 %
- up to ca. 700 mg HG: ca. 70 µm +/- 10 %
- more than ca. 700 mg HG: ca. 80 µm +/- 10 %

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC
Indications of danger: R2 - Repr. Cat. 2, T+ - Very toxic, T - Toxic, N - Dangerous for the environment
R phrases:
May cause harm to the unborn child.
Very toxic by inhalation.
Toxic: danger of serious damage to health by prolonged exposure through inhalation.
Very toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Reproductive toxicity: Repr. 1B
Acute toxicity: Acute Tox. 2
Specific target organ toxicity - repeated exposure: STOT RE 1
Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1)
Hazardous to the aquatic environment: Aquatic Chronic 1 (M-Factor = 1)
Hazard Statements:
May damage the unborn child.
Fatal if inhaled.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word: Danger
Silber70

Pictograms: GHS06-GHS08-GHS09

Hazard statements
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

SECTION 3: Composition/information on ingredients

3.1. Substances
Sum formula: Hg

Hazardous components

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>231-106-7</td>
<td>mercury</td>
<td>&lt; 100 %</td>
</tr>
<tr>
<td>080-001-00-0</td>
<td>Repr. 1B, Acute Tox. 2, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H360D **</td>
<td>H330 H372 ** H400 H410</td>
</tr>
</tbody>
</table>

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

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation
Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion
Immediately get medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Not combustible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation.

6.2. Environmental precautions
Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up
Collect mechanically. Suitable absorbing material: Iodine coal. Handling larger quantities: Use approved industrial vacuum cleaner for removal. Vapours / aerosols must be extracted by suction immediately at point of origin.

6.4. Reference to other sections
Collect in closed containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

Advice on protection against fire and explosion
Can be released in case of fire: Gas / vapours, toxic.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Store only in original container. Keep container tightly closed in a cool, well-ventilated place. Unsuitable materials for Container: Aluminium.

Advice on storage compatibility
The following must be prevented: Ethine, Ammonia., metal., Aluminium.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-97-6</td>
<td>Mercury</td>
<td>-</td>
<td>0.02</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

Biological Monitoring Guidance Values (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>Parameter</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-97-6</td>
<td>Mercury</td>
<td>mercury</td>
<td>20 µmol/mol</td>
<td>urine</td>
<td>Random</td>
</tr>
</tbody>
</table>

Additional advice on limit values
MAK/mac: 0,1 mg/m³; 0,01 ml/m³

8.2. Exposure controls
Appropriate engineering controls
Ensure adequate ventilation of the storage area.

Protective and hygiene measures
When using do not eat or drink. Change contaminated clothing.
**Safety Data Sheet**

Silber70

according to Regulation (EC) No 1907/2006

### Eye/face protection
Tightly sealed safety glasses.

### Hand protection
Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber). (EN 374, category 2).

### Respiratory protection
The following must be prevented: inhalation.
Filter respirator (full mask or mouth-piece) with filter: Hg-P3

---

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>silver</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not applicable</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>356 ºC</td>
</tr>
<tr>
<td>Solidification point</td>
<td>-38 ºC</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0,0016 hPa</td>
</tr>
<tr>
<td>Density</td>
<td>13.5 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Vapour density</td>
<td>&gt; 1</td>
</tr>
</tbody>
</table>

---

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid
heat.

#### 10.5. Incompatible materials
Ethine, Ammonia., metal., Aluminium.

#### 10.6. Hazardous decomposition products
Can be released in case of fire: Gas / vapours, toxic.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-97-6</td>
<td>mercury</td>
<td>inhalative vapour</td>
<td>ATE</td>
<td>0,5 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>0,05 mg/l</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Irritant effect on the skin: none / none
Irritant effect on the eye: Mechanical action of the product (e.g. unwanted adherence) may cause damages.

SECTION 12: Ecological information

12.1. Toxicity

LC50: 0.9 mg/l/96h (Gambusia affinis)

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

Very toxic to aquatic organisms.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose [h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-97-6</td>
<td>mercury</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>0,35 mg/l</td>
<td>96 h</td>
<td>Ictalurus punctatus</td>
<td></td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

Absorption and accumulation in organisms (bio-accumulation potential)

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Carry out under observation of official regulations covering a chemical/physical treatment plant.

Waste disposal number of waste from residues/unused products

060404 WASTES FROM INORGANIC CHEMICAL PROCESSES; metal-containing wastes other than those mentioned in 06 03; wastes containing mercury

Classified as hazardous waste.

Waste disposal number of used product

060404 WASTES FROM INORGANIC CHEMICAL PROCESSES; metal-containing wastes other than those mentioned in 06 03; wastes containing mercury

Classified as hazardous waste.

Waste disposal number of contaminated packaging

060404 WASTES FROM INORGANIC CHEMICAL PROCESSES; metal-containing wastes other than those mentioned in 06 03; wastes containing mercury

Classified as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3506

14.2. UN proper shipping name: Mercury (Hg) contained in manufactured articles.

14.3. Transport hazard class(es): 8 (6.1)

Hazard label: 8 (6.1)
**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

<table>
<thead>
<tr>
<th>Silber70</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification code:</strong></td>
</tr>
<tr>
<td><strong>Limited quantity:</strong></td>
</tr>
<tr>
<td><strong>Transport category:</strong></td>
</tr>
<tr>
<td><strong>Hazard No:</strong></td>
</tr>
<tr>
<td><strong>Tunnel restriction code:</strong></td>
</tr>
</tbody>
</table>

**Other applicable information (land transport)**

E0

**Marine transport (IMDG)**

14.1. **UN number:** UN 3506
14.2. **UN proper shipping name:** Mercury (Hg) contained in manufactured articles.
14.3. **Transport hazard class(es):** 8 (6.1)

**Hazard label:**

Limited quantity: 5 kg
EmS: F-A, S-B

**Other applicable information (marine transport)**

E0

**Air transport (ICAO)**

14.1. **UN number:** UN 3506
14.2. **UN proper shipping name:** Mercury (Hg) contained in manufactured articles.
14.3. **Transport hazard class(es):** 8 (6.1)

**Hazard label:**

Limited quantity Passenger: Transport prohibited.
IATA-packing instructions - Passenger: 869
IATA-max. quantity - Passenger: free
IATA-packing instructions - Cargo: 869
IATA-max. quantity - Cargo: free

**Other applicable information (air transport)**

E0

: Transport prohibited.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes

**SECTION 15: Regulatory information**

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

**National regulatory information**

Water contaminating class (D): 3 - highly water contaminating
SECTION 16: Other information

Relevant R-phrases (Number and full text)
26 Very toxic by inhalation.
48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
50 Very toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.
61 May cause harm to the unborn child.

Relevant H- and EUH-phrases (Number and full text)
H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.