

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Silber70

Print date: 20.04.2016

Product code: 6200

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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

1.3. Details of the supplier of the safety data sheet

Company name: DMG Chemisch-Pharmazeutische Fabrik GmbH
Street: Elbgaustraße 248
Place: D-22547 Hamburg
Telephone: +49. (0) 40. 84006-0
e-mail: info@dmg-dental.com
Internet: www.dmg-dental.com
Telefax: +49. (0) 40. 84006-222

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

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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

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-106-7	mercury	< 100 %
7439-97-6	Repr. Cat. 2, T+ - Very toxic, T - Toxic, N - Dangerous for the environment R61-26-48/23-50-53	
080-001-00-0	Repr. 1B, Acute Tox. 2, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H360D *** H330 H372 ** H400 H410	

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**

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Additional information

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)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7439-97-6	Mercury	-	0.02		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
7439-97-6	Mercury	mercury	20 µmol/mol	urine	Random

Additional advice on limit valuesMAK/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.

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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**

Physical state:	liquid
Colour:	silver
Odour:	odourless

Test method

pH-Value: not applicable

Changes in the physical state

Initial boiling point and boiling range: 356 °C

Solidification point: - 38 °C

Vapour pressure:
(at 20 °C) 0,0016 hPaDensity: 13,5 g/cm³

Water solubility: insoluble

Vapour density: > 1

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.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

LC50: 0.004 mg/l (Cyprinus carpio/96h)

LC50: 0.002 mg/l (crustaceae indet./48h)

EC50: 0.3 mg/l (algae indet./72h)

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
7439-97-6	mercury					
		inhalative vapour	ATE	0,5 mg/l		
		inhalative aerosol	ATE	0,05 mg/l		

Irritation and corrosivity

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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.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
7439-97-6	mercury					
	Acute fish toxicity	LC50	0,35 mg/l	96 h	Ictalurus punctatus	

12.3. Bioaccumulative potential

Absorption and accumulation in organisms (bio-accumulation potential)

12.4. Mobility in soil

No data available

Further information

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

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 products060404 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)

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Classification code: CT3
 Limited quantity: 5 kg
 Transport category: 3
 Hazard No: -
 Tunnel restriction code: E

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: 8 (6.1)

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: 8 (6.1)



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

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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.