

# Safety Data Sheet

According to OSHA/GHS (HCS)

**Trade Name: Trade Name: DHP Brand Supplies:  
Dispersed Phase, Dispersed Phase High-Copper, High Copper Spherical.**

Printed Date: 03/28/2016

Version, 1

Date/Revised: 03/28/2016

## SECTION 1: Identification

### Product Identifier

**Trade name: DHP Brand Supplies: Dispersed Phase, Dispersed Phase High-Copper, High Copper Spherical.**

**Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

### Application of the substance / mixture

Dental Amalgam

### Details of the supplier of the safety data sheet

**Distributed by: Dental Health Products, Inc.  
2614 North Sugar Brush Road  
New Franken, W.I. 54229-0176**

### Information Department:

Quality Assurance / Regulatory Affairs

### Emergency telephone number:

24 Hour emergency Assistance:

**INFOTRAC US** + 1-800-535-5053

**International** + 1-201-894-5500

General SDS Assistance:

**Information** + 1-800-929-5500

## SECTION 2: Hazard(s) Identification

### Classification of the substance or mixture

Very toxic

Very toxic by inhalation

Toxic

May Cause harm to unborn child. Toxic: danger of serious damage to health by  
Prolonged exposure through inhalation

### Classification system

The classification was made according to the latest editions of international  
Substances list, and expanded upon company literature and data.

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## Label elements

### **Code letter and hazard designation of product**



Acute Toxicity



Aquatic Toxicity

## Hazard-determining components of labeling:

Mercury

## Risk Phrases

May cause harm to 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.

## Safety Phrases

Avoid exposure - obtain special instructions before use.

Keep container in a well-ventilated place.

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

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible).

Use appropriate container to avoid environmental contamination.

## Classification system

### **NFPA ratings (scale 0 - 4)**

Health = 4

Fire = 0

Reactivity = 0

### **HMIS-ratings (scale 0 - 4)**

REACTIVITY

\*4

0

0

Health = \*4

Fire = 0

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Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/Information on ingredients

**Chemical characterization: Mixtures**

**Description:**

Alloy powder and mercury in pre-dosed capsules.

**Dangerous components:**

7439-97-6 mercury 50%

## SECTION 4: First-aid measures

**Description of first aid measures**

**General information:**

Immediately remove any clothing soiled by the product.

**After inhalation:**

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

Antidote: DMPS

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## SECTION 5: Fire-Fighting measures

### Extinguishing media

#### **Suitable extinguishing agents:**

The product is not flammable.

Use fire fighting measures that suit the environment.

#### **Special hazards arising from the substance or mixture**

In case of a fire very toxic mercury fumes will generate.

Fumes are heavier than air.

### Advice for firefighters

#### **Protective equipment:**

Wear self-contained respiratory protective device.

### Additional information:

Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

### Methods and material for containment and cleaning up

Spillages of mercury should be removed immediately, including from places which are difficult to access.

Use a plastic syringe to draw it up. Smaller quantities can be covered by sulphur

Powder and removed.

Avoid inhalation of vapors

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Only adequately trained personnel should handle this product.  
Ensure good ventilation/exhaustion at the workplace.  
For use in dentistry only

### Information about protection against explosions and fires

Keep respiratory protective device available.

### Conditions for safe storage, including any incompatibilities

#### Storage

##### **Requirements to be met by storerooms and receptacles**

Store only in unopened original receptacles

##### **Information about storage in one common storage facility**

Not required.

##### **Further information about storage conditions**

Keep receptacle tightly sealed.  
Store receptacle in a well ventilated area.

##### **Specific end use(s):**

No further relevant information available.

## SECTION 8: Exposure controls/Personal protection

### Additional information about design of technical systems

No further data; see item 7.

### Control parameters

#### **Components with limit values that require monitoring at the workplace**

##### **7439-97-6 mercury**

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Hg; see OSHA standard interpretation memo  
REL Long-term value: 0.05\* mg/m<sup>3</sup>  
Ceiling limit value: 0.1 mg/m<sup>3</sup>  
as Hg; \*Vapor; Skin  
TLV Long-term value: 0.025 mg/m<sup>3</sup>  
as Hg; Skin; BEI

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## **Ingredients with biological limit values**

### **7439-97-6 mercury**

BEI 35 µg/g creatinine

Medium: urine

Time: prior to shift

Parameter: Total inorganic mercury (background  
15 µg/L

Medium: blood

Time: end of shift at end of workweek

Parameter: Total inorganic mercury (background)

## **Additional information:**

The lists that were valid during the creation were used as basis.

## **Exposure controls**

### **Personal protective equipment**

### **General protective and hygienic measures**

Usual hygienic measures for dental practice

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Store protective clothing separately

## **Breathing equipment**

In case of brief exposure or low pollution use respiratory filter device. In case of

Intensive or longer exposure use respiratory device that is independent of

Circulating air

## **Recommended filter device for short term use**

Special gas filter Hg-P3

## **Protection of hands**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the  
substance/ the preparation after use of gloves apply skin-cleaning agents and  
skin cosmetics.

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## **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacture.

Natural rubber, NR

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

**Penetration time of glove material** The exact break through time has to be found out by the manufacturer of Protective gloves and has to be observed.

## **Eye protection**

Tightly sealed goggles

## **SECTION 9: Physical and chemical properties**

### **Information on basic physical and chemical properties**

#### **General Information**

The physical and chemical properties in this section refer to the mercury.

#### **Appearance**

**Form:** Fluid

**Color:** Silver grey

**Odor:** Odorless

**Odor threshold:** Not determined.

**pH-value:** Not determined.

#### **Change in condition**

**Melting point/Melting range:** -38 °C (-36 °F)

**Boiling point/Boiling range:** 356 °C (673 °F)

**Flash point:** Not applicable.

**Auto igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

#### **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**Vapor pressure:** Not determined.

**Density at 20 °C (68 °F):** 13.54 g/cm<sup>3</sup> (112.991 lbs/gal)

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

#### **Solubility in / Miscibility with**

**Water:** Insoluble.

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**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Other information** No further relevant information available

## SECTION 10: Stability and reactivity

**Reactivity**

No further relevant information available.

**Chemical stability**

Stable under normal handling and storage conditions

**Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

No further relevant information available.

**Hazardous decomposition products**

None under normal conditions of storage and use

**Additional information**

Avoid contact with ammoniac, amines, metals and strong acids.

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**

**Primary irritant effect**

**On the skin**

No irritant effect.

**On the eye**

No irritating effect.



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## **Sensitization**

Mercury may have a sensitizing effect on the skin and lungs, or act as a nephrotoxin or neurotoxin.

## **Additional toxicological information**

The product shows the following dangers according to internally approved calculation methods for preparation.

Harmful

Very toxic

Alloy powder and mercury are predosed in closed capsules, therefore the danger of exposition to mercury vapors are low.

Avoid exposure of mercury to pregnant person.

## **Carcinogenic categories**

## **IARC (International Agency for Research on Cancer)**

7439-97-6 mercury 3

## **NTP (National Toxicology Program)**

None of the ingredients is listed.

## **SECTION 12: Ecological information**

### **Toxicity**

#### **Aquatic toxicity**

No further relevant information available.

#### **Persistence and degradability**

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.

### **Ecotoxical effects**

#### **Remark**

Very toxic for fish

## **Additional ecological information**

### **General notes**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system,

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Even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground

Also poisonous for fish and plankton in water bodies

Very toxic for aquatic organisms

## Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage

Do not allow product to reach sewage system.

### **Un-cleaned packagings**

**Recommendation:** Disposal must be made according to official regulations.

## SECTION 14: Transport information

### **UN-Number**

DOT UN2809

ADR, IMDG, IATA 2809

### **UN proper shipping name**

IMDG, IATA MERCURY

### Transport hazard class (es)

DOT, IMDG, IATA

Class 8 Corrosive substances.

Label 8

### **Packing group**

DOT, ADR, IMDG, IATA III

### **Environmental hazards:**

**Marine pollutant:** Yes

**Special precautions for user** Warning: Corrosive substances

**Danger code (Kemler):** 80

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**EMS Number:** F-A,S-B

**Segregation groups** Heavy metals and their salts (including their organometallic compounds)

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable

## SECTION 15: Regulatory information

### Safety, health and environmental regulations

#### Legislation specific for the substance or mixture

#### **Section 355 (extremely hazardous substances)**

None of the ingredients is listed

#### **Section 313 (Specific toxic chemical listings)**

7439-97-6 mercury

#### **TSCA (Toxic Substances Control Act)**

7439-97-6 mercury

#### Proposition 65

#### **Chemicals known to cause cancer**

None of the ingredients is listed.

#### **Chemicals known to cause reproductive toxicity for females**

None of the ingredients is listed

#### **Chemicals known to cause reproductive toxicity for males**

None of the ingredients is listed.

#### **Chemicals known to cause developmental toxicity**

7439-97-6 mercury

#### Carcinogenic categories

#### **EPA (Environmental Protection Agency)**

7439-97-6 mercury D

#### **TLV (Threshold Limit Value established by ACGIH)**

7439-97-6 mercury A4

#### **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

#### **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## Product related hazard information:

### **Hazard symbols:**



Very toxic



Dangerous for the environment

### Hazard-determining components of labeling

Mercury

### Risk phrases

May cause harm to the unborn child.

Also very toxic by inhalation

Also 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.

### Safety phrases

Avoid exposure - obtain special instructions before use.

Keep container in a well-ventilated place.

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

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Use appropriate container to avoid environmental contamination.

### National regulations

#### **Other regulations, limitations and prohibitive regulations**

This product is classified as a medical device under US and Canadian regulations and by the US Food and Drug Administration and Health Canada.

#### **Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.