



Silmet Amalgam Alloys(Classification according to Directive 790/2009/EC)Replaces version of : 15.09.12Rev. 5rev date: 6/15

SECTION 1: Identification of Product and Company

Manufacturer: Silmet Ltd

Address:12 Hassadna St. Industrial Park. Or Yehuda 6022011. IsraelTelephone:+ 972 3 7353000

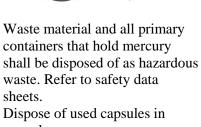
Product Name: Silmet Dental Amalgam - Alloy powder and mercury

Product Use:

Indications: Intended for the use as a dental restorative material in the treatment of dental caries. Limitations on Use: For use only by dental professionals

| SECTION 2: Composition/Information on Ingredients | | | | | | | |
|---|----------------|------------------------|------------------------|-----|--------------------------------|--|-------------------|
| Hazardous Ingredients | | | | | | | |
| | CAS # | PEL | TLV | % | | | The second second |
| Mercury | 7439-97-6 | 0.05 mg/m ³ | 0.05 mg/m ³ | 47* | /!\ | | CORROSIVE |
| * (% Bas | sed on final A | Amalgam com | | | V | | |
| WARNING | | | | | Waste material and all primary | | |

WARNING Device Contains Mercury: Toxic by inhalation Danger of cumulative effects Corrosive to metals



accordance with national regulations.

Other Ingredients

Alloy powder contains silver, tin, copper and/ or zinc metals.

Silver 40-72% Copper 5-25% Tin 25-32% Zinc 0-1% Palladium 0 - 0.5% Powder to Mercury ratio : app. one to one

SECTION 3: Health Hazard Data

Routes of Entry:

Skin: Irritant/Sensitizer/Neurotoxin/Nephrotoxin

Acute Exposure: May cause redness and irritation. Chronic Exposure: Possible sensitization, dermatitis and swelling. Mercury may be absorbed through intact skin causing urinary problems

Eyes: Irritant.

Acute Exposure: Contact may cause irritation. Mercury is corrosive and may cause corneal injury or burns. Chronic Exposure: Mercury may be deposited in the lens of the eye, causing visual disturbances.

Inhalation: Irritant/Sensitizer/Nerotoxin

Acute Exposure: Inhalation of mercury vapor can cause cough, fever, nausea, and vomiting. Chronic Exposure: Inhalation of high concentrations mercury





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vapor over a long period causes mercurialism. Findings are extremely variable & include tremors, salivation, stomatitis, loosening of teeth, blue lines on gums, pain & numbness in extremities.

Ingestion: Neurotoxic/nephrotoxic

Acute Exposure: May cause nausea, vomiting, kidney damage and nerve effects. Chronic Exposure: Symptoms include Central Nervous System (CNS) disorders.

Carcinogenicity - NTP: No

IARC Monographs: No OSHA Regulated Carcinogen: No

SECTION 4: First Aid Measures

Skin: Wash thoroughly with soap and water. Use hand cream. If irritation persists, consult a physician.

Eye: Flush with water for at least 15 minutes. Consult a physician.

Inhalation: Move to fresh air. If irritation persists, consult a physician.

Ingestion: Contact a physician. May cause neurotoxic/nephrotoxic effects.

SECTION 5: Fire Fighting Measures

Flash Point (Method Used): N/A

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Carbon dioxide, dry chemical foam

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus when fighting a fire in an area containing mercury.

Unusual Fire Fighting Procedures: Emits toxic fumes in fire conditions.

SECTION 6: Accidental Release Measures

Personal precautions: Avoid contact with skin.

Disposal: Dispose of according to local or state regulations.

Others: In case the material is released or spilled, clean up with inert absorbent material and dispose of in an approved manner. Do not allow to flow off into the drains or waters.

SECTION 7: Handling and Storage

Steps to be taken in case material is released or spilled: Isolate the area and begin clean-up immediately. Do not touch spilled material. Cover all liquid droplets with a commercially available mercury vapour suppressant such as HG-X or elemental Sulfur. Collect the droplets using specialized mercury vacuum cleaners.

Waste Disposal Method: Material should not be allowed to enter sewers. All scrap mercury liquid and set alloy must be sent for reclamation by a commercial metal recycling facility.

Precautions to be taken in handling and storing: Store in a cool, dry place away from ignition sources.

Other precautions: Use according to directions. Wash hands thoroughly before smoking or eating.

SECTION 8: Exposure controls/Personal Protection

Silmet Ltd. 12 Hassadna St. Industrial Park, Or-Yehuda 6022011, Israel. Tel: 972-3-7353000 • Fax: 972-3-5331581 • info@silmet.co.il • www.silmetdental.com





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Respiratory Protection (Specify Type): Not needed for small quantities as encountered in this product. AVOID BREATHING OF VAPORS. HIGHLY TOXIC - IRRITANT - SENSITIZER. VENTILATION: Local Exhaust: Use in a well ventilated area to keep exposure under 0.05mg/m3.

Mechanical (General): Should be sufficient

Protective Gloves: Chemical resistant or latex gloves required

Eye Protection: Safety glasses with side shields. Full face shields

Work/Hygiene Practices: USE ONLY ACCORDING TO DIRECTIONS.

Wash thoroughly after handling. Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

| SECTION 9: Physical and | Chemical Properties |
|--------------------------------|----------------------------|
|--------------------------------|----------------------------|

| Boiling Point: | 674 °F | | | |
|---|----------------------------|--|--|--|
| Specific Gravity (H20 = 1): | 13.35 | | | |
| Vapor Pressure (mm Hg): | 0.0012 mm Hg @ 68 °F | | | |
| Melting Point: | -38 °F | | | |
| Vapor Density: | N/E | | | |
| Evaporation Rate: | N/E | | | |
| Solubility in Water: | 0.0002g/100g water @ 68 °F | | | |
| Appearance and Odor: Powder: Odorless dark-gray alloy of silver, tin, copper and/or zinc. | | | | |
| Liquid: Mercury is a silvery, mobile, odorless liquid. | | | | |

This MSDS addresses the mercury (liquid) portion of the product, which is a known health hazard. The powder is not considered to be hazardous. The health hazard data section references information relative to bulk quantities of elemental mercury and may not reflect the actual hazards of small quantities such as those encountered with this product.

SECTION 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: High temperatures.

Incompatibility (Material to Avoid): Halogens, ammonia, and strong oxidizing agents.

Hazardous Decomposition Byproducts: Mercury Vapor.

Hazardous Polymerization: Will not occur

SECTION 11: Toxilogical Information

Acute toxicity: Toxic by inhalation

Do not open or damage the capsule before mixing.

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

Subacute / Chronic toxicity: In very rare cases amalgam allergies may occur. Inhalation is hazardous to the central nervous system

Further information: Avoid exposure of mercury to pregnant person.

SECTION 12: Ecological Information





Safety Data Sheet To some the source of th

SECTION 13: Disposable considerations

Any disposal practice must be in compliance with local and national regulations. Material in the elemental state and alos left-overs from restorations should be safed in a plastic contatiner for reuse or recycling. For disposal contac an expert for chemical waste, at your local-, federal or state waste department.

SECTION 14: Transport Information

IATA and IMDG: Product: Amalgam Capsule Contains: Mercury Proper Shipping Name: Mercury contained in manufactured articles UN Number: UN 3506 Packing Group: III

Class (sub risk): 8 (6.1) Corrosive & Toxic Limits: LQ -5kg

ADR/RID Class: UN 2809 Shipping name: Mercury Class: 8 Packing Group: III LQ - 5 kg

SECTION 15: Regulatory Information

This product is classified as a medical device under EC Directives, US and Canadian regulations

HMIS (Hazardous Material Identification System) Rating: H3 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 -Serious Hazard; 2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

State RTK: California Proposition 65 WARNING:

This product contains mercury, a chemical known to the State of California to cause birth defects or other reproductive harm.

SECTION 16: Other Information

Date of revision: 28.1.14

CAUTION: PRODUCT FOR PROFESSIONAL USE

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The information on this safety sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this sheet or use of this product together with any other process/procedure will be exclusively under the user's responsibility.