

SILMET



12 Hassadna St.
Industrial Park, Or-Yehuda 60200 Israel
Tel. 972-3-5331474
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Material Safety Data Sheet

1. Product Identification

Dental Amalgam (powder, capsules & tablets form)

Trade name: Nogama, Spherodon – M, Spherodon+, Dentacore

Manufacturer's name: Silmet Ltd.

Address: 12 Hassadna St. Industrial Park

City/Country: Or-Yehuda Israel 60200

Emergency telephone: 972-3-5331474

Date prepared: February 1, 1999

2. Composition (information on ingredients)

Silver 45-72%

Copper 5-25%

Tin 25-32%

Zinc 0-1%

Powder to Mercury ratio : app. one to one

3. Hazards Identification

Exposure to mercury may cause irritation to skin, eyes, respiratory tract and mucous membrane. In individual cases, hypersensitivity reactions, allergies, or electrochemically caused local reactions have been observed. Due to electrochemical processes, the *lichen planus* of the mucosa may develop.

Mercury may also be a skin sensitizer, pulmonary sensitizer, nephrotoxin and neurotoxin.

After placement or removal of amalgam restorations, there is a temporary increase of the mercury *concentration* in the blood and urine.

Mercury expressed during condensation *and* unset amalgam may cause amalgamation or galvanic effect if in contact with other metal restorations. If symptoms persist, the amalgam should be replaced by a different material.

Removal of clinically acceptable amalgam restorations should be avoided to minimize mercury exposure, especially in expectant mothers.

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4. **First Aid Measures**
If skin or eyes are contacted, wash off well with water immediately.

5. **Fire Fighting Measures**
Extinguishing media:

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.

7. **Handling and Storage**
Avoid extreme heat.
Keep in temperature of about 25° C.
Packing materials:

8. **Exposition Restrictions and Personal Protective Equipment.**
Personal Protective Equipment: Dental office or laboratory working clothes.
Breathing protection: Do not breath or inhale vapor
Hand protection: Use of protective gloves is recommended.
Protective and hygiene measures: Washing of hands

9. **Physical and Chemical Properties** Appearance and Odor
Appearance and Odor
Powder: odorless dark gray alloy of Silver, Tin and Copper
Liquid: Mercury is a silvery, mobile odorless liquid
Density
13.35 g/cm³
Solubility in water
0.0002g/100g water @ 68°F
Solubility in organic solvents
insoluble

10. **Stability and Reactivity**
Avoid extreme heat, keep closed.

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11. **Toxicological Information**

LD₅₀/LC₅₀: 150mg/M³/46 days inhalation-woman TCLO : 29/ M³/30
hours inhalation-rabbit.

12. **Ecological Data**

Environmental toxic effects:
aquatic toxicity:

organism	test period	test method	results
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13. **Disposal Instructions**

recommendation: obey local regulation

14. **Particulars on Transport**

land carriage:

warning label: risk no.: material no.:

further particulars: no hazardous goods within the meaning of transport
regulation.

15. **Regulation**

marking: according to the MDD 93/42/EEC

16. **Other Particulars**

The number of amalgam restorations for one patient should be kept to a
minimum.

Inhalation of mercury vapor by dental staff may be avoided by proper handling
of the amalgam, the use of masks, along with adequate ventilation.

Avoid contact with skin and wear safety glasses and gloves.

Store amalgam scrap in well sealed containers. Regulations for disposal must
be observed.

Caution: U.S. Federal law restricts this device to sale by or on the order of a
dentist. For dental use only.

**All information above has been given according to our present state of
knowledge. It has been compiled to the best of our knowledge.**

**The above mentioned data do not represent a guarantee on
characteristics. They only describe the safety requirements with regard to
our products. They do not represent an assurance of product
characteristics in the meaning of guaranties.**