

Safety data sheet

1. Product and company identification

Product Name: **Scanalloy 70 Capsules**
Synonyms: Capsules with mercury and metal powder (alloy)
Application: Capsules to produce amalgam for dental fillings.
Supplier: **Nordiska Dental AB**
Box 911
S-251 09 Helsingborg
Sweden
Issued by: Sylva Lindskog
Telephone No: + 46 - 42 19 58 40
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Drawn up: 95-03-27 Revision date:

2. Composition/information on ingredients

| Components Include and Risk Phrases | Cas-No | EG-No | Content (%) | Label | Symbol | TLV |
|---|--|-----------|---------------------------|-------|-----------------------|-----|
| Health and Environmental Hazardous Mercury (Hg) - R23-33 | 7439-97-6 | 231-106-7 | 50 | Toxic | Skull and cross-bones | x |
| Other Silver (Ag) Tin (Sn) Copper (Cu) Zinc (Zn) | 7440-22-4 7440-31-5 7440-50-8 7440-66-6 | | 34,7 9,7 5,4 0,2 | | | |

3. Hazards identification

Generally: Danger by cumulative effects. May cause long-term adverse effects in the aquatic environment.
Inhalation: Toxic by inhalation. Mercury is absorbed mainly by inhalation of vapour.
Skin contact: Harmful in contact with skin. May cause sensitization by skin contact.
Eye contact:
Ingestion:

4. First-aid measures

Generally:
Inhalation: Fresh air and rest. If you feel unwell, seek medical advice (show the label where possible).
Skin contact: Wash off skin immediately with soap and water. If irritation appears, seek medical advice.
Eye contact: Rinse immediately with plenty of water. If reddening/irritation appears, seek medical advice.
Ingestion: Wash out mouth immediately with water. Thereafter drink a glass of water/milk. If you feel unwell, seek medical advice.

5. Fire-fighting measures

Specific Fire Hazards: No fire or explosion hazards. Mercury may evaporate in fire because of low boiling point. Do not breathe toxic fumes.

Specific methods: Container near fire should be removed or cooled down with water.
Extinguishing media: All extinguishing media.
Extinguishing media not usable:

6. Accidental release measures

Personal precautions:
Environmental precautions:
Methods for cleaning up: Collect spillage with mercury tong or -pipette, place in a tight bottle and cover with water. Cover smaller amounts with metal powder (alloy) and remove. Smaller drops in cracks can be removed with metal foil of zinc, tin or copper which binds mercury.

7. Handling and storage

Storage:
Handling:

8. Exposure controls/personal protection

Engineering measures: Use only well-ventilated areas. Store packaging tightly closed. Avoid contact with skin. Avoid amalgam residues in dish-washer and sterilizer. Mercury vapour evaporates at elevated temperatures.

Personal protective equipment:

9. Physical and chemical properties

| | | | |
|--------------------------------------|---|--------------------------------------|-----------------|
| Physical state, form and colour: | Silver-white, liquid metal and metal powder in welded sealed disposable capsules. Hg data below. | | |
| Odour: | Without smell | | |
| pH: | | Boiling point/range (°C): | 357 |
| Melting point/range (°C): | -39 | Flashpoint (°C): | |
| | | Autoignition temperature (°C): | |
| Decomposition temperature (°C): | | Explosion limits: | |
| Explosion properties: | | Vapour density (air=1): | 6,91 |
| Density (20 °C, kg/m ³): | 13 600 | Vapour pressure (20 °C, mm Hg; kPa): | 0,0012; 0,00016 |
| Solubility in water (weight-%): | < 0,001 | Octanol/water partition coefficient: | |
| Solubility in organic solvents: | Insoluble | | |
| Specific properties: | TLV 0,05 mg/m ³ (air saturated with mercury att 20 °C contains 13 mg/m ³). | | |

10. Stability and reactivity

Stability: Mercury emits vapour, especially when heated.
Decomposition products:
Specific properties: Reacts violently with ammonia, chlorine, chlorine dioxide and nithromethane. Forms alloys with most metals, except iron, at ordinary temperatures.

11. Toxicological information

Acute Toxicity:
Local effects:
Sensitization:
Chronic Toxicity:
Specific effects:

12. Ecological information

Mobility:
Persistence/Degradability:
Bioaccumulation:

Ecotoxicity

13. Disposal considerations

Waste from residues: Environmental hazardous waste: Collection should be carried out according to local community law. Do not empty into drains. This material and/or its container must be disposed of as hazardous waste.

Contaminated packaging: This material and/or its container must be disposed of as hazardous waste.

14. Transport information

| | | | | |
|-----------------------------|----------|---------------|--------------|----------|
| UN | No: 2809 | Pack Group: 3 | | |
| RID/RID-S, ADR/ADR-S (land) | Class: | | | |
| IMDG (sea) | Class: 8 | Page: 8191 | EmS No: 8-12 | MFAG No: |
| Marine pollutant | | | | |
| IATA (air) | Class: | | | |
| Note: | | | | |

15. Regulatory information

Label for supply: Toxic

Symbol: Skull and cross-bones

Risk Phrases: R23 Toxic by inhalation
R33 Danger by cumulative effects
R43 May cause sensitization by skin contact
R53 May cause long-term effects in aquatic environment

Safety Phrases: S1 Keep locked up
S7 Keep container tightly closed
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Note: Complies with ISO 1559 (metal powder) and ISO 1560 (mercury).
Approved by NIOM, BSI, ADA and BfArM.

16. Other information

Literature references:

All information is related to the product as supplied and is provided on the understanding that it will be used in the way and for purposes as indicated and that user has taken all necessary precautions. Information contained in the publication is true and accurate to the best of our knowledge.