



I Identification of Substance / Preparation and Company Details

Product Name : Silverfil Argentum Capsules
Recommended Use : Used by Dental Professionals for filling tooth cavities.

Manufacturer : Dunia Perwira Manufacturing Sdn Bhd
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II Composition / Information on Ingredients

Capsules contain powder, and mercury sealed in a pouch/pillow in a single compartment.

Composition of powder : 60% Reactive Silver (Ag) + 40% Silver-Mercury (Ag_3Hg_2)
Total Silver content in powder : 74%
Total Mercury content in powder: 26%
Hazardous Components : Mercury (Metallic Mercury / Quicksilver) CAS No: 7439-97-6

III Hazard Identification

This product contains mercury. Mercury is a hazard, and is toxic by inhalation. Acute exposure may cause allergic reactions including dermatitis, digestion and respiratory disorders.

IV First-aid Measures

Warning : Contains Mercury. In case of accident, seek medical advice immediately.
Inhalation : Toxic by inhalation. Remove to fresh air. Seek medical attention.
Exposure to high concentration can cause dyspnea, coughing, fever, severe nausea, vomiting, excess salivation, kidney damage with renal shutdown.

Skin Contact : Remove contaminated clothing. Wash affected area with soap and water. May cause redness, irritation and allergic reaction

Eye Contact : Flush with running water for 15 minutes, including under eyelids. If irritation persists, seek medical attention immediately. May cause irritation and allergic reaction.

V Fire-fighting Measures

Extinguishing Media : Dry Chemical, Carbon Dioxide, Water Spray or Foam.
Special Equipment : For larger fires, use protective clothing and breathing apparatus.

VI Accidental Release Measures

Personal Precautions : Wear appropriate respirator, rubber gloves, safety goggles and protective clothing to prevent skin contact.

Environmental Precautions: Prevent any spillage from entering drainage or waterways.

Cleaning Spillage : Spillages should be removed immediately. Syringes can be used to draw up mercury. Smaller quantities can be covered by sulphur powder and removed. Store in unbreakable containers (polyethylene) and store in a cool, dry and well ventilated room.



VII Handling and Storage

Handling : Handle with caution. Use only as directed. Do not breathe in powder and avoid exposure to mercury. Wear appropriate protective clothing and gloves and goggles to prevent skin contact. Wash hands after use. Keep away from food/drink.

Storage : Keep container tightly closed and dry. Store in a cool and dry environment. Avoid placement under direct sunlight. Storage in large quantities should be in a well ventilated area.

VIII Exposure Controls and Personal Protection

Respiratory Equipment : Not required under normal use.
Eye Protection Equipment : Safety Goggles
Hand Protection Equipment : Rubber Gloves

Use only as directed. Observe general safety and hygiene. Wash hands after use.

IX Physical and Chemical Properties

Appearance and Colour : Powder and Mercury are in the same compartment, Mercury is in a transparent pouch/pillow.

Odour : None

Boiling Point of Mercury : 357°C

Melting Point of Mercury : 39°C

Flash Point : Not Available

Flammable Limits : Not Available

Ignition Temperature : Not Available

Vapour Pressure of Mercury : 0.0012 mmHG at 20°C

Vapour Density of Mercury : 7.0 (Air = 1.0)

Specific Gravity of Mercury : 13.6 g/cm³

Solubility in Water : Insoluble

Solubility in other solvents : Insoluble in alcohol

pH Value : Not Available

Reactivity in Water : Not Available

Other Information : Not Available

X Stability and Reactivity

Thermal Decomposition : No decomposition under normal conditions

Hazardous Reactions : Acetylinic Compounds; Ammonia; Boron; Diiodophosphide; Ethylene Oxide; Metals (Aluminium, Potassium, Lithium, Sodium, Rubidium); Methyl Azide; Methylsilane; Oxygen; Oxidants (Bromine; Peroxyformic Acid; Chlorine Dioxide; Nitric Acid; Tetracarbonylnickel; Nitromethane; Silver Perchlorate).

Hazardous Decomposition : Slightly volatile at room temperature, atmospheric pressure. Thermal decomposition products include toxic mercury vapours and oxygen.

XI Toxicological Information



MATERIAL SAFETY DATA SHEET
PRODUCT: SILVERFIL ARGENTUM
Date: 23/11/2006 | Rev: 03

Critical Hazards to Humans	:	Toxic by inhalation. Acute exposure may cause allergic reactions including dermatitis, digestion and respiratory disorders.
Critical Hazards to Environment	:	Not available.
LCLo / Inhalation / Rabbit	:	(Mercury) 29mg/m ³ /30 hour
Chronic Health Effects	:	Inhalation of Mercury vapours, dusts or organic vapours, or skin absorptions over long periods can cause mercurialism. Symptoms include tremors, inflammation of the mouth and gums, excessive salivation, stomatitis, blue lines on gums, pain and numbness in extremities, weight loss, mental depression and nervousness. Exposure may aggravate kidney disorders, chronic respiratory disease and nervous system disorders.

XII Ecological Information

Not Available

XIII Disposal Considerations

Dispose of according to local regulations. Note that Silverfil Argentum amalgam is similar to Moschellandsbergite, a mineral in nature. Therefore, Silverfil Argentum waste amalgam does not require special storage/disposal requirements (Eg. In Sulphite solution).

XIV Transport Information

This product is not considered dangerous goods within transportation regulations.
Labelling according to BS EN 980:2003, ISO 24234:2004 & ISO 13897:2003

XV Regulatory Information

This product is regulated by:
Medical Devices Directive 93/42/EEC
National Regulations

XVI Other Information

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The information in this Material Safety Data Sheet is based on data considered to be accurate and is given based on product knowledge at the time. This information is purely for guidance purposes and is not limited.