



1. Substance / Preparation and Company name

Product Name: Permite; Lojic +; GS-80, GS-80 Spherical; F400; Ultracaps +; Ultracaps S; SDI Admix; SDI Spherical and New Ultrafine. Capsules,

Recommended use: For filling of cavitated teeth by dental professionals.

Manufacturer / Supplier

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2. Composition / Information on ingredients

Capsules

<u>Hazardous ingredients:</u>	<u>Wt. %</u>	<u>CAS No.</u>	<u>EEC No.</u>	<u>Index No.</u>
Compartment 1: Mercury, metallic (40-50% of total product)	100	7439-97-6	231-106-7	080-001-00

Compartment 2:
Non toxic alloy powder

100

Tablets and Alloy Powder

<u>Hazardous ingredients:</u>	<u>Wt. %</u>	<u>CAS No.</u>	<u>EEC No.</u>	<u>Index No.</u>
Non toxic alloy powder	100			



3. Hazard Identification:

These products contain mercury. It is toxic if inhaled and acute exposure may cause allergic reactions including dermatitis, digestion and respiratory disorders.

California Prop 65 Warning

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

Risk phrases: **T** Toxic
23 Toxic by inhalation
33 Danger of cumulative effects

Safety phrases: **1/2** Keep locked up and out of reach of children
7 Keep container tightly closed.
9 Keep container in a well ventilated place.
45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

4. First Aid Measures

General advice: Contains metallic mercury. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

If inhaled: Toxic by inhalation. Remove to fresh air. Seek medical attention. If not breathing give artificial respiration.

May cause respiratory disorders including inflammation and fluid retention. Inhalation of mercury vapours at high concentration can cause dyspnea, coughing, fever, severe nausea, vomiting, excess salivation, kidney damage with renal shutdown.

If ingested: Call a physician immediately. Give large amounts of water.

On skin contact: Wash skin with soap and water. Remove contaminated clothing. May cause irritation and allergic reaction.

On contact with eyes: Wash with clear, tepid water. If irritation persists, obtain medical attention. May cause irritation and allergic reaction.

5. Fire Fighting Measures

Suitable extinguishing media: As for adjacent fire. Avoid direct water stream. Do not allow water runoff to enter sewers and waterways. Remove product from the fire area if this can be done without risk.

Special protective equipment: In fires involving large quantities of product, use self-contained breathing apparatus and full protective clothing.

Further information: Hazardous decomposition products may be produced. (Sec. 10).



6. Accidental Release Measures

Spillages:	Mercury presents a health hazard if incorrectly handled. 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 the vapour.
Personal precautions:	Wear appropriate MSHA approved respirator, gloves, safety goggles and protective clothing to prevent skin contact.
Environmental precautions:	Prevent any spillage from entering drains or waterways.
Methods for cleaning up:	Avoid contact with skin and eyes. Pick up with dust pan or method that does not break up mercury into smaller droplets, etc. Store in a sealed plastic container, away from heat and flame, until disposal via an approved Recycler.

7. Handling and storage

Handling

Do not breathe powder and avoid exposed mercury surfaces. Wear appropriate gloves, goggles, and protective clothing to prevent skin contact. Wash thoroughly after handling. Keep away from food, drink and around animal feed stuffs.

Storage

Keep container tightly closed and dry. Storage in large quantities (as in warehouse) should be in a ventilated, cool area. Do not store in metal containers. Keep away from sources of ignition and elevated temperatures, recommended <25°C.

8. Exposure controls and personal protection

8-Hour TWAs: Mercury - 0.025 mg/m³ (Skin) (ACGIH); 0.05 mg/m³ (Skin) (OSHA/UK & NOHSC/Australia); 0.1 mg/m³ (Short term) (Germany);
Silver - 0.01 mg/m³ (OSHA/Germany); 0.1 mg/m³ (ACGIH/U.K. & NOHSC/Australia)
Tin - 2 mg/m³ (OSHA/ACGIH/Germany & NOHSC/Australia); 5 mg/m³ (U.K.);
Copper - 1 mg/m³ (OSHA/ACGIH/Germany/UK & NOHSC/Australia)
Indium - 0.1 mg/m³ (OSHA/UK & NOHSC/Australia)
Zinc - 1 mg/m³ (ACGIH)

These levels are not anticipated under foreseeable use conditions.

Personal protective equipment

Respiratory equipment: None required under normal use conditions.

Hand protection: Impervious gloves.

Eye protection: Safety goggles.

General safety and hygiene measures: Use only as directed. Wash hands after use.



9. Physical and chemical properties

Form and Colour: Silver alloy powder and mercury in separate compartments of a plastic capsule.

Odour:	Odourless
Melting point / melting range:	(Mercury): -38.9°C
Boiling point / boiling range:	(Mercury): 356.6°C
Flash point:	Not applicable
Explosion limits:	Not applicable
Ignition temperature:	Not applicable
Vapour pressure:	(Mercury) 0.0012 mmHg at 20°C
Specific Gravity:	(Mercury) 13.6 g/cm ³
% Volatiles:	Not applicable
Solubility in water:	Insoluble
Solubility in other solvents:	Insoluble in alcohol
pH value:	Not available
Octanol / water partition coefficient (log POW):	Not determined
Viscosity:	Not determined
Other information:	N/A

10. Stability and Reactivity

Thermal decomposition: No decomposition under normal conditions

Substance(s) to avoid: Strong oxidizers

Hazardous reactions: Mixtures of mercury with acetylene, ammonia, chlorine dioxide, methyl azide, chlorates, nitrates, or hot sulfuric acid can be explosive. Readily amalgamates with most metals.

Hazardous decomposition products: Slightly volatile at room temperature, atmospheric pressure. When exposed to high temperatures, mercury vaporizes to extremely toxic fumes.

11. Toxicological information

Critical hazards to man: Toxic by inhalation. Acute exposure may cause allergic reactions including dermatitis, digestion and respiratory disorders.

Critical hazards to the environment: Not available.

None available regarding product. Some information supplied for ingredient(s).



11. Toxicological information (Cont'd)

LCLo / Inhalation / Rabbit: (Mercury) 29 mg/m³/30 Hour

Chronic Health Effects: Inhalation of mercury vapours, dusts or organic vapours, or skin absorption or mercury over long periods can cause mercurialism. Symptoms include tremors, inflammation of 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.

12. Ecological information

German "Wassergefahrdungs Klasse (WGK):3

This product must not enter effluent, ground water, surface water or the soil.

13. Disposal considerations

Product: Dispose of in accordance with local regulations.

The 1991 Environmental Protection (Duty of Care) Regulations SI No. 2839 and amendments should be noted (United Kingdom).

14. Transport information

Product:	Amalgam Capsule
Contains:	Mercury
Proper Shipping Name:	Mercury contained in manufactured articles
UN Number:	UN2809
Packing Group:	III
Class (sub risk):	8
IATA Limits:	EQ -
	LQ -
	PAX 35kg
	CAO 35kg
IMDG Limits:	LQ 5kg
ADR/RID Class:	8 (C9) Corrosive substances

15. Regulatory information

These products are regulated by:

TGA
Medical Devices Directives 93/42/EEC
FDA
National regulations



MATERIAL SAFETY DATA SHEET [according to GHS & NOHSC: 2011(2003)]
Product: PERMITE; LOJIC +; GS-80; GS-80 SPHERICAL; F400; ULTRACAPS +;
ULTRACAPS S; SDI ADMIX; SDI SPHERICAL AND NEW ULTRAFINE.
CAPSULES.

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Revision: 8

16. Other information

Preparation of MSDS:

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The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Department issuing MSDS: Research and Development
Contact: Operations Director
