

MATERIAL SAFETY DATA SHEET

according to EC Regulation No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation	HI-LIGHT POWDERS SILVER (Product code: TEMPSILV)
1.2 Use of the substance/preparation:	Reveals surface details on porceilan or composite crowns and veneers.
1.3 Company/undertaking identification:	Manufacturer Micerium S.p.A Via G. Marconi 83 16030 Avegno (GE) -Italy Phone: +39. 0185. 7887870 fax +39. 0185. 7887970
1.4 Emergency telephone:	Poison Control Center San Martino Hospital (Genova, Italy) Phone: +39 010 352808 (available 24 hours/ 24)

2. HAZARDS IDENTIFICATION

Most important hazards:	NFPA Ratings:
Physical – chemical hazards:	Health Hazard: 1 Fire & Explosion: 2 Reactivity: 2 Protection: B
Hazards for human health:	
Eyes:	Dust in eyes will be irritating
Skin:	Excessive contact may cause mild irritation.
Inhalation:	Inhaled dust may irritate upper respiratory tract.
Ingestion:	Low toxicity is expected.
Over-exposure signs and symptoms:	None
Chronic effects:	None
Hazards for environment:	None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main ingredients:	Pigment metal powders 98%
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4. FIRST AID MEASURES

Immediate medical attention need:	In case of irritation persists when it contacts eyes, or inhaled.
Measure to be adopted when:	
- It contacts eyes:	If direct contact occurs, rinse well with water. If irritation persist contact a physician.
- It contacts skin:	Wash well with soap and water.
- Inhaled:	If affected, remove to fresh air. If irritation persist contacts a physician.
- Ingested:	Not likely in lab use. No specific antidote needed.

5. FIRE-FIGHTING MEASURES

General information:	N/A
Suitable extinguishing media:	Cover with fine dry sand or a flat lid to cut off oxygen and allow to cool.
Extinguishing media which shall not be used for safety reasons:	Do not use a fire extinguisher or water on burning metal powder. Do not disturb the burning powder causing a cloud of metal dust. This may serve to spread the fire.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	Minimal hazard in lab quantities. In large quantity, metal dust in the air can cause a fire or explosion hazard if involved in a fire.

Legend: NA = not applicable; ND = not available data

Special protective equipment for fire-fighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep out of reach of children.
Environmental precautions: Well ventilated area.
Measures for cleaning/collecting: Avoid generation of dust. Cover with sweeping compound if available. Gently sweep up and dispose of in a moisture-proof closed container. Dispose of closed waste container in regular trash.

7. HANDLING AND STORAGE

7.1 Handling: For laboratory use only.
7.2 Storage: Keep container well closed. Store in cool, dry, well ventilate area. Avoid direct sources of heat.
7.3 Specific use(s): NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values: TLV (ACGIH): 15 mg/Cu M (Nuisance dust only)
8.2 Exposure controls:
8.2.1 Occupational exposure controls:
8.2.1.a Respiratory protection: Not normally required.
8.2.1.b Hand protection: Cotton or nitrile gloves only if irritation is a problem.
8.2.1.c Eye protection: Safety glasses. Do not wear contact lenses when handling chemicals. Eye wash station is suggested.
8.2.1.d Skin protection: NA
8.2.2 Environmental exposure controls: Mechanical (general) is acceptable.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information:

Physical state: Fine soft powder
Colour: Bright grayish-silver or gold
Odour: ND

9.2 Important health, safety and environmental information:

pH:	NA	Relative density:	NA
Boiling point/boiling range:	NA	Solubility:	Insoluble
Flash point:	NA	Water solubility:	Insoluble
Flammability (solid, gas):	Limits 40g/m ³ as dust. This level is not expected to be attained in normal lab handling of this material	Partition coefficient: n-octanol/water:	NA
Explosive properties:	NA	Viscosity:	NA
Oxidising properties:	NA	Vapour density:	NA
Vapour pressure:	NA	Evaporation rate:	NA

9.3 Other information:

Miscibility:	NA	Melting point/melting range:	NA
Fat solubility (solvent — oil to be specified):	NA	Gas group:	NA
Conductivity:	NA	Auto-ignition temperature	NA

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Stable – Avoid potential contact with heat, sparks, open flames.

10.2 Materials to avoid: Oxidizing agents, acids, alkalis, water, halogenated solvents.

10.3 Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION

11.1 Immediate effects due to of overexposure to product:

11.1.1 Skin/ eye contact: Excessive contacts with skin may cause mild irritation; dust in eyes will be irritating.

11.1.2 Inhalation: Inhaled dust may irritate upper respiratory tract.

11.1.3 Ingestion: Low toxicity is expected.

11.2 Delayed effects due to:

11.2.1 Skin/ eye contact: NA

11.2.2 Inhalation: NA

11.2.3 Ingestion: NA

11.3 Chronic effects due to:

11.3.1 Skin/ eye contact: NA

11.3.2 Inhalation: NA

11.3.3 Ingestion: NA

11.4 Sensitizing effects: NA

11.5 Carcinogenicity, mutagenicity and reproductive toxicity: No ingredient identified as carcinogen or potential carcinogen by NPT, IARC or OSHA.

Other toxicological information: None

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: ND

12.2 Mobility: ND

12.3 Persistence and degradability: ND

12.4 Bioaccumulative potential: ND

12.5 Results of PBT assessment: ND

12.6 Other adverse effects: ND

13. DISPOSAL CONSIDERATIONS

Reccomendation: Dispose of closed waste container in regular trash.

14. TRANSPORT INFORMATION

None

14.1 By sea (IMDG): NA

14.2 By road (ADR): NA

14.3 By rail (RID): NA

14.4 By Air (ICAO / IATA): NA

15. REGULATORY INFORMATION

Labelling according to EU guidelines: None

16. OTHER INFORMATION

16.1 List of relevant R phrases: NA

16.2 Training advice: NA

16.3 Recommended restrictions on use: Professional use only.

16.4 Further information: NA

16.5 Sources of key data used to compile the Safety Data Sheet: The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Micerium s.p.a. bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

16.6 Changes from the previous version (if available): New emission.

16.7 Released by: Micerium S.p.A.