

Material Safety Data Sheet

Golden Ceramic Solder (GCS)



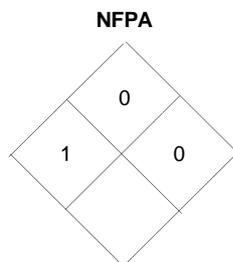
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Principality of Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation **Golden Ceramic Solder (GCS)**



HMIS	
H	1
F	0
R	0
C	

1.2 Application / Use Pre solder

1.3 Producer Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA

1.4 Supplier Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
2785 Skymark Ave., Unit 1 Mississauga, ON L4W4Y3, Canada
MSDS prepared by Andejeet Gulati. Tel. No. 716 691-0010

1.5 24 Hour Emergency Assistance Emergency-Call USA- Infotrac: 1-800-535-5053
Emergency-Call Canada - Canutec: 1-613-996-6666

General MSDS Assistance US: 1-800-533-6825
Canada: 1-800-263-8182

2 Composition

2.1 Chemical characterization Solder made of :
54.0 % Au (CAS-Nr. 7440-57-5), 3.9 % Pd (7440-05-3), 40 % Ag (7440-22-4), 1.0 % Mn (7439-96-7), 1.0 % Zn (7440-66-6),
< 1.0 % B, Re

2.2 Hazardous components

2.3 Further information None.

3 **Hazards identification** Avoid breathing of grinding dust and vapours.
Melted material may cause burns.

4 First aid measures

4.1 Eye contact Flush eyes with plenty of water. Call a physician if irritation persists.

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4.2	Skin contact	Melted material presents a special hazard of deep thermal burns. If burn occurs, treat as any thermal burn.
4.3	Ingestion	Call a physician immediately.
4.4	Inhalation	Remove to fresh air.
4.5	Further information	None.

5 Fire-fighting measures

5.1	Suitable extinguishing media	Not required. not combustible
5.2	Extinguishing media to avoid	Do not use direct water stream.
5.3	Flash point	not applicable
5.4	Ignition temperature	not applicable
5.5	Explosion limits	Lower: Upper: not applicable
5.6	Further information	None.

Test method:

6 Accidental release measures

Clean up mechanically.
Clean and reuse

7 Handling and storage

7.1	Handling	Only adequately trained personnel should handle this product. Keep out of reach of children.
7.2	Industrial hygiene	Usual hygienic measures for dental practice.
7.3	Storage	No specific requirements.
7.4	Place of storage	
7.5	Fire- and explosion-protection	No specific requirements.

8 Exposure controls / Personal protection

8.1	Technical measures	Provide adequate local ventilation. Control airborne concentration below the exposure guideline.
8.2	Control of threshold limits	Dust and vapors: MAK 0.1 mg/m ³
8.3	Personal protective equipment	
8.3.1	Respiratory protection	If metal fumes are present, use an approved high-efficiency

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particulate respirator (P3).
In dusty atmospheres, use an approved dust respirator P2.

- 8.3.2 Hand protection Gloves.
- 8.3.3 Eye protection Safety goggles.
- 8.3.4 Other Use only with adequate ventilation.

9 Physical and chemical properties

- 9.1 Appearance solid
- 9.2 Colour yellow
- 9.3 Odour odourless
- 9.4 Change of physical state Test method:
Melting range
- 9.5 Density
- 9.6 Vapour pressure

not applicable
- 9.7 Viscosity

not applicable
- 9.8 Solubility
Solubility in water

non soluble
- 9.9 pH

not applicable
- 9.10 Further information None.

10 Stability and reactivity

- 10.1 Thermal decomposition None, if used in accordance to instructions.
- 10.2 Hazardous decomposition products None, if used in accordance to instructions.
- 10.3 Hazardous reactions None, if used in accordance to instructions.
- 10.4 Further information None.
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11 Toxicological information

- 11.1 Acute toxicity Solder: non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer
- 11.2 Subacute / Chronic toxicity Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.
- 11.3 Further information None.

12 Ecological information

No ecological problems to be anticipated if properly handled and used.
nearly insoluble

13 Disposal considerations

Recycling

14 Transport information

- 14.1 Transport at land
- | | | | |
|----------------------|-----|---------------|-----|
| ADR | --- | RID | --- |
| UN Number | --- | Kemler Number | --- |
| Packing Group | --- | | |
| Proper shipping name | --- | | |
- 14.2 Transport at sea
- | | | | |
|----------------------|-----|------|-----|
| ADNR | --- | IMDG | --- |
| UN Number | --- | | |
| EMS | --- | MFAG | --- |
| Packing Group | --- | | |
| Proper shipping name | --- | | |
- 14.3 Air transport
- | | |
|----------------------|--------------------------|
| ICAO / IATA-DGR | --- |
| UN Number | --- |
| Proper shipping name | --- |
| Subsidiary Risk | --- |
| Labels | --- |
| Packing Group | --- |
| Passenger airplane | Packing Instructions --- |
| | max. --- |
| Cargo Airplane | Packing Instructions --- |
| | max. --- |
- 14.4 Further information Product is not classified as a dangerous good for transport.

15 Regulatory information

This product does not require classification as Dangerous Goods.
The product is a medical device according to the EC-directive 93/42/EEC.
This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and

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Drug Administration and Health Canada.

15.1 National regulations

15.2 NFPA Storage

15.3 Further information None.

16 Other information Version: 4
Changes: 1.5

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

This safety data sheet has been generated with the safety database 'ChemManager',
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91/155/EEC