

Material Safety Data Sheet

High Fusing Yellow Ceramic Solder (HFYC)

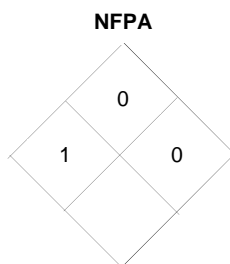


Date of issue / Reference 07.06.2011 liprt
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation **High Fusing Yellow Ceramic Solder (HFYC)**



HMIS	
H	1
F	0
R	0

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 Anderjeet 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 :
80.0 % Au (CAS-Nr. 7440-57-5), 4.2 % Pd (7440-05-3), 15.4 % Ag (7440-22-4), < 1.0 % In, Li, Fe, Ca, Ti

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 (10-15 min.). Call a physician if irritation persists.

4.2 Skin contact Melted material presents a special hazard of deep thermal burns. If

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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.
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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.
 - 7.2 Industrial hygiene Usual hygienic measures for dental practice.
 - 7.3 Storage No specific requirements.
 - 7.4 Place of storage No specific requirements.
 - 7.5 Fire- and explosion-protection No specific requirements.
-

8 Exposure controls / Personal protection

- 8.1 Exposure controls Provide adequate local ventilation. Control airborne concentration below the exposure guideline.
- 8.2 Exposure limit values Dust and vapors: MAK 0.1 mg/m³
- 8.3 Occupational exposure controls
 - 8.3.1 Respiratory protection If metal fumes are present, use an approved high-efficiency particulate respirator (P3).
In dusty atmospheres, use an approved dust respirator P2.

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8.3.2 Hand protection	Gloves.
8.3.3 Eye protection	Safety goggles.
8.3.4 Other	Use only with adequate ventilation.
8.4 Environmental exposure controls	Not applicable.

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		
Part. coeff. n-octanol/water		
Evaporat. rate		
	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 Conditions / materials to avoid	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

- 12.1 Ecotoxicity No relevant information is available.
No risk expected.
- 12.2 Mobility No risk expected.
- 12.3 Persistence and degradability No risk expected.
- 12.4 Bioaccumulative potential No risk expected.
- 12.5 Further 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 | --- | | |
| Marine pollutant | | | |

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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 Drug Administration and Health Canada.

15.1 National regulations
15.2 NFPA Storage
15.3 Further information

None.

16 Other information
No other information.

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.

