1 Commercial product name and supplier

1.1 Commercial product name / Designation

High Fusing Yellow Ceramic Solder (HFYC)

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
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.

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.
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.
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.

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 ---
14.3 Air transport

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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.