## 1 Commercial product name and supplier

1.1 Commercial product name / Designation

Special High-Fusing white Ceramic Solder (SHFWC)

1.2 Application / Use

Pre solder

1.3 Producer

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

1.4 Supplier

1.5 TOX emergency number

USA: Infotrac 1-800-535-5053
Canada: Canutec 1-613-996-6666
Emergency-Call LI: +423 / 235 35 35 or 373 40 40

## 2 Composition

2.1 Chemical characterization

Solder made of:
47.0 % Au (CAS-Nr. 7440-57-5), 10.3 % Pd (7440-05-3), 41.0 % Ag (7440-22-4), 1.4 % In (7440-74-6), < 1.0 % B, Ru, 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. Call a physician if irritation persists.

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.

5.2 Extinguishing media to avoid

Do not use direct water stream.
5.3 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.
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/m³

8.3 Personal protective equipment

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.

9 Physical and chemical properties

9.1 Appearance
solid

9.2 Colour
white

9.3 Odour
odourless

9.4 Change of physical state
Test method:
Melting range
1045-1105 °C

9.5 Density

9.6 Vapour pressure
not applicable

9.7 Viscosity
not applicable
9.8 Solubility
Solubility in
non soluble

9.9 pH
not applicable

9.10 Flash point
not applicable

9.11 Ignition temperature
not applicable

9.12 Explosion limits
Lower:
Upper:
not applicable

9.13 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.

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.

13 Disposal considerations
Recycling
13.1 EU waste key
17 04 07

14 Transport information
14.1 Transport at land
ADR --- RID ---
15 Regulatory information

This product does not require classification according to the criteria of the "Gefahrstoffverordnung". 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 UN number
---

15.2 National regulations

15.3 EU number
---

15.4 Hazard symbols

15.5 Hazard designation

15.6 Risk phrases

15.7 Safety phrases

15.8 MAK value
0.1 mg/m³

15.9 BVD classification (CH)
---

15.10 VbF (D)
---

15.11 Further information
None.
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'.
© ASSIST Applied Software Solutions in Science and Technology AG, Weiherweg 3, CH-4104 Oberwil, Switzerland