1. Commercial product name and supplier

1.1 Commercial product name /
Designation

Spartan Ceramic Solder

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:
50.0% Au (CAS-Nr. 7440-57-5), 24.0% Pd (7440-05-3), 25.0% Cu (7440-50-8),
1.0% Zn (7440-66-6), <1.0% Ir

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 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.

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 0.2 mg/m³

8.3 Personal protective equipment

8.3.1 Respiratory protection
If metal fumes are present, use an approved high-efficiency
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
Melting range
Test method:

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.
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

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
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.