Aquarius Ceramic Solder

1 Commercial product name and supplier

1.1 Commercial product name / Designation

Aquarius Ceramic Solder

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

Emergency-Call USA: (716) 691-0010
Emergency-Call LI: +423 / 235 35 35 or 373 40 40

2 Composition

2.1 Chemical characterization

Solder made of:
Au 56.0 % (CAS-Nr. 7440-57-5), Pt 39.7 % (7440-06-04), Pd 1.9 % (7440-05-3), Mn 1.0 % (7439-96-7), Zn 1.0 % (7440-66-6), < 1.0 % In, Li, 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.

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.
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
yellow

9.3 Odour
odourless

9.4 Change of physical state
Test method:
Melting range
970-1020 °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.
   nearly insoluble

13 Disposal considerations
   Recycling

13.1 EU waste key
   17 04 07

14 Transport information

14.1 Transport at land
   ADR
   RID
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 ml/m³ (ppm)

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, Wehrweg 3, CH-4104 Oberwil, Switzerland