Material Safety Data Sheet

1. Commercial product name and supplier

1.1 Commercial product name / Designation

Universal Solder PKF

2. Composition

2.1 Chemical characterization

Solder made of:
48.8 % Au (CAS-Nr. 7440-57-5), 2.8 % Pt (7440-06-4), 40.5 % Ag (7440-22-4), 7.3 % Zn (7440-66-6), < 1.0 % others

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 combustible
Not required.

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 and reuse
Clean up mechanically.

7 Handling and storage

7.1 Handling
Keep out of reach of children.
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

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
In dusty atmospheres, use an approved dust respirator P2.
If metal fumes are present, use an approved high-efficiency particulate respirator (P3).

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

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
nearly insoluble
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
The product is a medical device according to the EC-directive 93/42/EEC.
This product does not require classification according to the criteria of the EC.

15.1 National regulations
15.2 NFPA Storage

15.3 Further information

None.

16 Other information

Version: 3
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.