

Material Safety Data Sheet

Universal Solder PKF



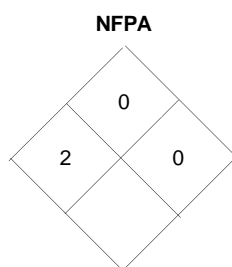
Date of issue / Reference 01.10.2007 lise / Version 3
Replaces version of 14.06.2006 hot
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Principality of Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation **Universal Solder PKF**



HMIS	
H	2
F	0
R	0
C	

1.2 Application / Use 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:
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.

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- | | | |
|-----|---------------------|---|
| 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. |
-

Test method:

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/m ³ |
| 8.3 | Personal protective equipment | |
| 8.3.1 | Respiratory protection | In dusty atmospheres, use an approved dust respirator P2. |

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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.
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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

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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.

This safety data sheet has been generated with the safety database 'ChemManager',
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91/155/EEC