Material Safety Data Sheet

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Replaces version of 09.05.2005  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

2.1 Chemical characterization

Dental alloy made of:
Ni 61.4 % (CAS-Nr. 7440-02-0), Cr 25.7 % (7440-47-3), Mo 11.0 % (7439-98-7), Si 1.5 % (7440-21-3), < 1.0 % Mn, Al, C

2.2 Hazardous components

2.3 Further information

None.

3  Hazards identification

May cause sensitization by inhalation and skin contact. 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 combustible
Not required.

5.2 Extinguishing media to avoid
None.

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
Not required.

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 0.5 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 white
9.3 Odour odourless
9.4 Change of physical state Test method:
   Melting range
   Casting temperature
9.5 Density 8.4 g/cm³ (20°C)
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

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
Skin sensitisation may develop from prolonged, repeated skin contact.
Alloy: 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
Nickel: Inhalation of grinding dust and vapours can cause cancer.

12 Ecological information
No ecological problems to be anticipated if properly handled and used.
nearly insoluble

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 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. This product does not require classification as Dangerous Goods.

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.

This safety data sheet has been generated with the safety database 'ChemManager'.
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