

# EU Safety Data Sheet

Evolution Lite



Date of issue / Reference

18.05.2005 hot

Replaces version of

14.10.2004

Date of printing

18.05.2005 **Sheet No. 1576**

Page 1 of 5

Company

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan  
Principality of Liechtenstein

## 1 Commercial product name and supplier

1.1 Commercial product name /  
Designation

**Evolution Lite**

1.2 Application / Use

Ceramic alloy

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

Dental alloy made of :  
Au 30-50% (CAS-Nr. 7440-57-5), Pd 35-45% (7440-05-3), Ag 1-10% (7440-22-4), In 5-10% (7440-74-6), Ga 1-5% (7740-55-3)

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 (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

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18.05.2005 **Sheet No. 1576**

Page 2 of 5

5.2 Extinguishing media to avoid None.

5.3 Further information None.

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**6 Accidental release measures** Clean up mechanically.  
Clean and reuse

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## 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.

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## 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/m<sup>3</sup>

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.

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## 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 1100 -1260 °C

9.5 Density 12.5 g/cm<sup>3</sup>

9.6 Vapour pressure

not applicable

Test method:

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18.05.2005 **Sheet No. 1576**

Page 3 of 5

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

Complies with ISO 9693

## 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

Alloy: non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer  
Skin sensitisation may develop from prolonged, repeated skin contact.

11.2 Subacute / Chronic toxicity

Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

11.3 Further information

## 12 Ecological information

No ecological problems to be anticipated if properly handled and used.

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14.10.2004

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18.05.2005 **Sheet No. 1576**

Page 4 of 5

## 13 Disposal considerations

Recycling

13.1 EU waste key

17 04 07

## 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 for any mode of transportation.

## 15 Regulatory information

This product does not require classification according to the criteria of the EC.

The product is a medical device according to the EC-directive 93/42.

15.1 UN number

15.2 National regulations

15.3 EU number

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15.4 Hazard symbols

15.5 Hazard designation

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Page 5 of 5

15.6 Risk phrases  
15.7 Safety phrases  
15.8 MAK value 0.1 mg/m<sup>3</sup> ml/m<sup>3</sup> (ppm)  
15.9 BVD classification (CH) ---  
15.10 VbF (D) ---  
15.11 Further information None.

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**16 Other information** Version: 2

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*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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