

EU Safety Data Sheet

IPS Classic Glazing and Staining
Fluid



Date of issue / Reference 27.03.2007 lise / Version 4
Replaces version of 08.04.2005 hot
Date of printing 27.03.2007 **Sheet No. 1219**

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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 **IPS Classic Glazing and Staining Fluid**

1.2 Application / Use Ceramic

1.3 Producer Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1.4 Supplier

1.5 TOX emergency number Emergency-Call: +423 / 235 35 35 or 373 40 40
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 Composition

2.1 Chemical characterization Ethylene glycol

2.2 Hazardous components
CAS No. 107-21-1 100 % Ethylene glycol
Xn: Harmful. R22: Harmful if swallowed.

2.3 Further information None.

3 Hazards identification Harmful if swallowed.

4 First aid measures

4.1 Eye contact Flush eyes with plenty of water (10-15 min.). Call a physician.

4.2 Skin contact Wash thoroughly with soap and water.

4.3 Ingestion Rinse mouth with plenty of water. If you feel unwell, seek medical advice (show this safety data sheet).

4.4 Inhalation Remove to fresh air if effects occur. Consult a physician.

4.5 Further information Remove contaminated clothing.

5 Fire-fighting measures

5.1 Suitable extinguishing media Carbon dioxide, dry chemical and foam.

5.2 Extinguishing media to avoid Do not use direct water stream.

5.3 Further information Cool containers in the vicinity of the blaze using a water spray.
Ethylene glycol or solutions of ethylene glycol and water can form

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flammable vapours with air if heated.

6 Accidental release measures

Clean up with absorbent material such as sawdust, diatomaceous earth or universal absorbents.
Dispose of according to local and national regulations.
Do not allow to flow off into the drains or waters.

7 Handling and storage

- 7.1 Handling Only adequately trained personnel should handle this product.
- 7.2 Industrial hygiene Avoid eye and skin contact.
Usual hygienic measures for dental practice.
- 7.3 Storage Keep containers tightly closed.
Store at 12-28 °C / 54-82 °F.
- 7.4 Place of storage Store in a dry place.
- 7.5 Fire- and explosion-protection Not required.

8 Exposure controls / Personal protection

- 8.1 Technical measures Control airborne concentration below the exposure guideline.
- 8.2 Control of threshold limits Ethylene glycol: MAK (Maximale Arbeitsplatzkonzentration, Germany) is 10 ppm. ACGIH (American Conference of Governmental Industrial Hygienists, USA) Threshold Limit Value (TLV) is 50 ppm.
- 8.3 Personal protective equipment
- 8.3.1 Respiratory protection In poorly ventilated areas, use air-purifying respiratory protection apparatus (type A).
- 8.3.2 Hand protection Gloves.
- 8.3.3 Eye protection Safety goggles.
- 8.3.4 Other Eye wash fountain should be located in immediate work area.

9 Physical and chemical properties

- 9.1 Appearance Liquid
- 9.2 Colour transparent colourless
- 9.3 Odour practically odourless
- 9.4 Change of physical state Test method:
Melting point ca. - 13 °C
Boiling point 196 - 198 °C
- 9.5 Density 1.11 g/cm³ (20°C)

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9.6 Vapour pressure
0.1 mbar (20°C)

9.7 Viscosity
not determined

9.8 Solubility
Solubility in water
miscible

9.9 pH
ca. 7

9.10 Flash point
111 °C

9.11 Ignition temperature
410 °C

9.12 Explosion limits
Lower:
Upper:
not determined

9.13 Further information
None.

10 Stability and reactivity

10.1 Thermal decomposition
Carbon dioxide, carbon monoxide

10.2 Hazardous decomposition products
None under normal conditions of storage and use.

10.3 Hazardous reactions
With strong oxidisers.
With strong acids.
With strong bases.

10.4 Further information
None.

11 Toxicological information

11.1 Acute toxicity
Oral LD50 for rats: 4'700 mg/kg
Do not breathe vapour. Signs and symptoms of excessive exposure may be narcotic effects.

11.2 Subacute / Chronic toxicity
Possible risk of harm to the unborn child.

11.3 Further information
Excessive exposure may cause eye and respiratory irritation.

12 Ecological information

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

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13 Disposal considerations

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

13.1 EU waste key

18 01 05 (Medizinprodukt)

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 requires classification according to the criteria of the "Gefahrstoffverordnung".

15.1 UN number

15.2 National regulations

15.3 EU number

203-473-3

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15.4 Hazard symbols

Xn



15.5 Hazard designation

Xn: Harmful. Contains Ethylene glycol.

15.6 Risk phrases

R: 22

22 Harmful if swallowed.

15.7 Safety phrases

15.8 MAK value

10 ml/m³ (ppm)

15.9 BVD classification (CH)

15.10 VbF (D)

15.11 Further information

None.

16 Other information

Version: 4

Changes: 3/4/5/7/8/9/10/11/13

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.