

EU Safety Data Sheet

IPS Empress Universal Glazing and Staining



Date of issue / Reference

12.08.2010

liprt

Replaces version of

28.09.2007

lise / v5

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Sheet No. 1478

Version 6

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Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

**IPS Empress Universal Glazing and Staining
Fluid**

1.2 Application / Use

Ceramic

1.3 Producer

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein
msds@ivoclarvivadent.com

Supplier

1.4 TOX emergency number

Official

Emergency-Call: +423 / 235 33 13
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 Hazards identification

None, if used in accordance to instructions.

3 Composition

3.1 Chemical characterization

Butanediol (CAS No. 107-88-0)

3.2 Hazardous components

None.

3.3 Further information

None.

4 First aid measures

4.1 Eye contact

Flush eyes with plenty of water.

4.2 Skin contact

Wash thoroughly with soap and water.

4.3 Ingestion

Give large amounts of water.
If you feel unwell, seek medical advice (show this safety data sheet).

4.4 Inhalation

Remove to fresh air. If respiratory irritation is experienced, call a
physician.

4.5 Further information

None.

5 Fire-fighting measures

5.1 Suitable extinguishing media

Water fog, carbon dioxide, foam, dry chemicals.

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

5.3 Further information None.

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 skin contact.
Usual hygienic measures for dental practice.

7.3 Storage
Store at 2-28 °C / 36-82 °F
Keep containers tightly closed.

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 Exposure controls None, if used in accordance to instructions.

8.2 Exposure limit values None established.

8.3 Occupational exposure controls

8.3.1 Respiratory protection Not required.

8.3.2 Hand protection Gloves.

8.3.3 Eye protection Safety goggles.

8.3.4 Other None.

8.4 Environmental exposure controls Not relevant.

9 Physical and chemical properties

9.1 Appearance viscous liquid

9.2 Colour transparent colourless

9.3 Odour practically odourless

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9.4	Change of physical state		Test method:
	Melting point	Not determined.	
	Boiling point	203 - 204 °C	
9.5	Density	1.01 g/cm ³ (20°C)	
9.6	Vapour pressure	0.08 hpa (20°C)	
9.7	Viscosity	not determined	
9.8	Solubility		
	Solubility in water	Not determined.	
9.9	pH	6 - 7	20 °C
9.10	Flash point	108 °C	
9.11	Ignition temperature	394 °C	
		not determined	
9.12	Explosion limits	Lower: 1.9 Vol%	
		Upper: --- Vol%	
		Not known.	
9.13	Further information		
	Part. coeff. n-octanol/water	log Pow: -0.29	
	Evaporat. rate	None.	

10 Stability and reactivity

10.1	Thermal decomposition	None, if used in accordance to instructions.
10.2	Hazardous decomposition products	Combustion products include: Carbon monoxide and carbon dioxide None under normal conditions of storage and use.
10.3	Conditions / materials to avoid	With strong oxidisers.
10.4	Further information	None.

11 Toxicological information

11.1	Acute toxicity	Oral LD50 for rats: 18.610 mg/kg
11.2	Subacute / Chronic toxicity	Excessive exposure may cause eye and respiratory irritation.
11.3	Further information	None.

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12 Ecological information

12.1	Ecotoxicity	No data available.
12.2	Mobility	No data available.
12.3	Persistence and degradability	No data available.
12.4	Bioaccumulative potential	No data available.
12.5	Further information	German "Wassergefahrdungs Klasse (WGK)": 1

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 07
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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	---		
		Marine pollutant	---		
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.			

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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 EINECS/ELINCS number

203-529-7

15.4 Hazard symbols

15.5 Hazard designation

15.6 Risk phrases

15.7 Safety phrases

15.8 AGW value

15.9 BVD classification (CH)

15.10 VbF (D)

15.11 Further information

None.

16 Other information

No other information.

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.