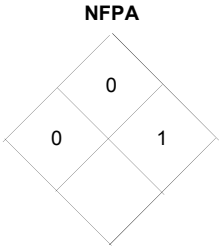
Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name / Designation

IPS Empress Direct



HMIS	
H	0
F	0
R	1

1.2 Application / Use: Light-curing restorative

1.3 Producer: Ivoclar Vivadent AG, Bendererstrasse 2, 9494 Schaan
Principality of Liechtenstein (FL)

1.4 Supplier: Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
2785 Skymark Ave., Unit 1 Mississagua, ON L4W4Y3, Canada
MSDS prepared by Anderjeet 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: Paste of dimethacrylates, inorganic fillers, copolymer, ytterbiumtrifluoride, initiators, stabilizers and pigments

2.2 Hazardous components

< 22 % Dimethacrylates (CAS No. 1565-94-2 und 72869-86-4)
R36: Irritating to eyes. R38: Irritating to skin.

2.3 Further information: None.

3 Hazards identification

Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

4 First aid measures

4.1 Eye contact: Flush with plenty of water. Consult a physician if irritation persists.

4.2 Skin contact: Wash thoroughly with water.

4.3	Ingestion	No hazards anticipated from swallowing small amounts incidentally to normal handling.
4.4	Inhalation	Remove to fresh air.
4.5	Further information	If you feel unwell, seek medical advice (show this safety data sheet).

5 Fire-fighting measures

5.1	Suitable extinguishing media	Water fog, carbon dioxide, foam, dry chemicals.
5.2	Extinguishing media to avoid	None known
		Test method:
5.3	Flash point	
5.4	Ignition temperature	not determined
5.5	Explosion limits	Lower: Upper: not applicable
5.6	Further information	None.

6 Accidental release measures

Clean up mechanically.
Dispose of according to local and national regulations.

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. When using, do not eat, drink or smoke.
7.3	Storage	Store at 2-28 °C / 36-82 °F
7.4	Place of storage	Avoid exposure to light.
7.5	Fire- and explosion-protection	Not required.

8 Exposure controls / Personal protection

8.1	Exposure controls	Good general ventilation should be sufficient.
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.

		Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. Avoid direct and indirect skin contact.
8.3.3	Eye protection	Safety goggles.
8.3.4	Other	None.
8.4	Environmental exposure controls	

9 Physical and chemical properties

9.1	Appearance	Paste	
9.2	Colour	off-white to cream	
9.3	Odour	practically odourless	
9.4	Change of physical state		Test method:
9.5	Density		
9.6	Vapour pressure	not applicable	
9.7	Viscosity	not determined	
9.8	Solubility		
	Solubility in water	< 0.1 %	
9.9	pH	Not determined.	
9.10	Further information		
	Part. coeff. n-octanol/water		
	Evaporat. rate	None.	

10 Stability and reactivity

10.1	Thermal decomposition	None, if used in accordance to instructions.
10.2	Hazardous decomposition products	None under normal conditions of storage and use.
10.3	Conditions / materials to avoid	None.
10.4	Further information	Avoid exposure of product to light.

11 Toxicological information

11.1	Acute toxicity	Oral LD50 for rats: > 5000 mg/kg
11.2	Subacute / Chronic toxicity	Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions.
11.3	Further information	No hazards anticipated from swallowing small amounts incidentally to normal handling.

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

13 Disposal considerations

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

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.

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.

15.1 National regulations

15.2 NFPA Storage

15.3 Further information None.

16 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.