1 Commercial product name and supplier

1.1 Commercial product name / Designation

IPS Empress Direct

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 Mississauga, 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: 1-800-263-8182
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, ytterbium trifluoride, 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.
eye protection

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.