01. Identification of substance, preparation and company

Product name: Ivoclar Vivadent IPS Empress Esthetic Veneer Build-up liquid
Use of the substance / preparation: Ceramic
Manufacturer/Supplier: Ivoclar Vivadent AG
Street/P.O.Box: Bendererstrasse 2, FL-9494 Schaan
Country code/Postal code/Town/City: Fürstentum Liechtenstein
Telephone: +(716) 691-0010
Telefax: +423 / 235 35 35 or 373 40 40
Distributor: Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174
Phone No.: +61 3 9795 9599, Telefax No.: +61 3 9795 9645

02. Hazards identification

Statement of Hazardous Nature
This product is not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission. Non-Dangerous Goods according to ADG.

Hazard designation

Classification: Not classified
ADG Classification: not classified
UN Number: not classified

Particular information pertaining specific risk for human and environment
None, if handled according to order.

03. Composition/information on ingredients

Chemical characterization: Mixture of water, alcohol and chloride

Hazardous components
CAS No. 107-88-0 < 5 % Alcohol, CAS No. 7646-85-7 0.1 % Chloride

Other ingredients determined not be hazardous
Non hazardous ingredients
None if used in accordance with instructions

04. First-aid measures

General During mixing it is recommended to apply local exhaust ventilation. Immediately remove all contaminated clothing.

After inhalation
Let in fresh air. Call a doctor, should the air passages be affected.

After skin contact
Flush with plenty of water.

After eye contact
Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

After ingestion
Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.
05. Fire-fighting measures

Suitable extinguishing media
- Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media
- Waterjet. Do not use direct water stream.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged
- None known

Special protective equipment
- When extinguishing fires, use breathing apparatus with an independent source of air.

06. Accidental release measures

Personal precautions
- Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions
- Prevent from flowing into surface water/ground water.

Methods for cleaning up/collecting
- Take up with a mechanical source and proceed according to the waste disposal regulations.

Additional information
- Remove according to regulations.

07. Handling and storage

Information for safe handling
- Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children.

Information about protection against explosions and fires
- No anti-explosion measures necessary.

Requirements to be met by storerooms and containers
- Keep only in the original container. Store at 12-28 °C. Store in a dry place.

Information about separation of incompatible products
- Store the foodstuffs separately. Sensitive to cold below < 2 °C

08. Exposure controls and personal protection

Producer Industry recommends an exposure limit of 1.5 mg/m3.

Additional information about engineering measures
- No particular measures required. Technical measures Provide adequate local ventilation. Control airborne concentration below the exposure guideline. Dust exposure limit: 1.5 mg/m3. Control airborne concentration below the exposure guideline.

Components with critical values that require monitoring at the workplace (exposure limits)
- Dust and Vapours Vapour pressure not applicable (20°C)
  - Specification: TWA (AUS)
  - Value: MAK 0.0 mg/m³

Personal protective equipment
- Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes. Respiratory protection In dusty atmospheres, use an approved dust respirator P2. If metal fumes are present, use an approved high-efficiency particulate respirator (P3).

Respiratory protection
- Provide for good ventilation. Respiratory protection Respiratory Protection. Avoid inhalation of dust while grinding. In dusty atmospheres, use an approved dust respirator.

Hand protection
- Short-term exposure (< 30 min): disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).
- Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).
Eye protection
Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337).

Body protection
No particular measures required.

09. Physical and chemical properties

Image
Form: liquid
Colour: colourless
Odour: odourless

Relevant safety data
Melting point / range: (1013 hPa) not applicable °C
Casting point / range: (1013 hPa) ca. not applicable °C
Flash point: >150 °C
Ignition temperature: not applicable °C
Lower explosion limit: not applicable % b.v.
Upper explosion limit: not applicable % b.v.
Density: (20 °C) 1.1 g/cm³
Solubility in water: (20 °C) missable % b.w.
PH value: 4

10. Stability and reactivity

Conditions to avoid
None, if handled according to order.

Materials to avoid
None known.

Hazardous decomposition products
None if used in accordance with instructions.

11. Toxicological information

Toxicological tests
No adverse effects anticipated by this route of exposure incidental to proper industrial handling
Primary irritant effect
Prolonged or repeated exposure may cause drying or irritation of the skin
Sensitization
No data available.

Experience on practice
No data available

12. Ecological information

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

Details on elimination (persistence / degradability)
Abiotical elimination
No data available.
Biological degradation / elimination
No data available.

Fate in environmental compartments
There are no data available on the preparation itself.

Ecotoxic effects
Performance in sewage-treatment plants
Material Safety Data Sheet
according to NOHSC:2011(2003)

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

13. Disposal considerations
Product EU waste key 02.08.09 Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.
Contaminated packaging Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant.

14. Transport information
Product is not classified for any mode of transportation

Land transport ADG
Classification
Class : - ADR RID

Maritime transport IMDG
Classification
IMDG-Code :
- EMS UN Number
- Packing Group
- MFAG Proper shipping name ADNR

Air transport ICAO-TI and IATA-DGR
Classification
Class :
- ICAO / IATA-DGR
- UN ICAO / IATA-DGR
- Proper shipping name
- UN Number

15. Regulatory information
Classification 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
Danger symbol and danger designation
Not required.

Hazard-determining components of labelling
None : MAK value 0.0 mg/m³ ml/m³ (ppm)
R-phrases
43 May cause sensitisation by skin contact.
36/37/38 Irritating to eyes, respiratory system and skin.
S-phrases
37/39 Wear suitable gloves and eye/face protection.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information
Processing instructions / technical data sheets
Please observe the label/directions for use!

Further information
This is a medical device classified under the requirements of EU and TGA. Complies with ISO 8891, ISO 9693
Contact
Dr. Peter Lobo

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and
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shall not establish a legally valid contractual relationship.