**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**  
  **Trade name:** IPS Empress Esthetic Veneer Wash Pastes

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
  No further relevant information available.

- **1.3 Details of the supplier of the safety data sheet**  
  **Manufacturer/Supplier:** Ivoclar Vivadent AG  
  Bendererstrasse 2  
  FL-9494 Schaan  
  PRINCIPALITY OF LIECHTENSTEIN

  Tel: +423 235 35 35  
  Fax: +423 235 33 60

- **1.4 Emergency telephone number:**  
  +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**  
  Classification according to Regulation (EC) No 1272/2008  
  The product is not classified according to the CLP regulation.

- **2.2 Label elements**  
  Labelling according to Regulation (EC) No 1272/2008 Void

- **2.3 Other hazards**  
  Results of PBT and vPvB assessment  
  **PBT:** Not applicable.  
  **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**  
  **Description:** dental ceramic

  **Dangerous components:**
  
  | CAS: 56-81-5 | glycerol | substance with a Community workplace exposure limit | 10-<25% |
  | EINECS: 200-289-5 |

  **Additional information:** For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**  
  **General information:** No special measures required.

- **After inhalation:**  
  Supply fresh air; consult doctor in case of complaints.  
  In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 2)
40.1.5

- After skin contact:
  Rinse with water.
  Generally the product does not irritate the skin.
- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  Mechanical effects only.
- After swallowing:
  Rinse out mouth and then drink plenty of water.
  If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed:
  No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media:
  Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture:
  No further relevant information available.
- 5.3 Advice for firefighters:
  Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
  Not required.
- 6.2 Environmental precautions:
  Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
  Pick up mechanically.
- 6.4 Reference to other sections:
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling:
  Only adequately trained personnel should handle this product.
  For use in dentistry only.
- 7.2 Conditions for safe storage, including any incompatibilities:
  Storage:
  Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  Information about storage in one common storage facility: Not required.
  Further information about storage conditions:
  This product is hygroscopic.
  Keep container tightly sealed.
  Store in dry conditions.
  7.3 Specific end use(s):
  No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:
  No further data; see item 7.
8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  - 56-81-5 glycerol
    - WEL Long-term value: 10 mg/m³

- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    - Usual hygienic measures for dental practice.
    - Keep away from foodstuffs, beverages and feed.
    - Wash hands before breaks and at the end of work.
  - Respiratory protection:
    - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Protection of hands:
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    - After use of gloves apply skin-cleaning agents and skin cosmetics.
  - Material of gloves
    - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - Penetration time of glove material
    - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

- General Information
  - Appearance:
    - Form: Pasty
    - Colour: According to product specification
  - Odour:
    - Characteristic
  - Odour threshold:
    - Not determined.
  - pH-value:
    - Not determined.

- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.

- Flash point:
  - Undetermined.

- Self-igniting:
  - Product is not selfigniting.

- Danger of explosion:
  - Product does not present an explosion hazard.

- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable under normal handling and storage conditions.
- 10.3 Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None under normal conditions of storage and use.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect: No irritant effect.
    - on the skin: No irritant effect.
    - on the eyes: No irritating effect.
  - Sensitisation: No sensitising effects known.
  - Additional toxicological information: No further relevant information available.

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
  Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

- European waste catalogue
  08 02 99 wastes not otherwise specified

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA
    Void

- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA
    Void

- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
    Class
      Void

- 14.4 Packing group
  - ADR, IMDG, IATA
    Void

- 14.5 Environmental hazards:
  - Marine pollutant:
    No

- 14.6 Special precautions for user
  Not applicable.

- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
  Not applicable.

- Transport/Additional information:
  Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

- UN "Model Regulation":
  -

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - National regulations:
    - Other regulations, limitations and prohibitive regulations
      The product is a medical device according to the Directive 93/42/EEC.
  - 15.2 Chemical safety assessment:
    A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

* Data compared to the previous version altered.