1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** IPS e.max ZirPress
- **CAS Number:** 66402-68-4
- **EC number:** 266-340-9

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

Application of the substance / the preparation
Manufacture of dental prosthesis
Fluorapatite glass-ceramic ingot for the PRESS-ON technology

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

Further information obtainable from:
  Regulatory Affairs
  msds@ivoclarvivadent.com

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

2 Hazards identification

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

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  Not applicable.

- **Information concerning particular hazards for human and environment:**
  Not applicable.

Label elements
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards** Avoid breathing sanding dust /swarf.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
  66402-68-4 ceramic materials
- **Identification number(s) ---**
- **EC number:** 266-340-9

(Contd. on page 2)
4 First aid measures

- **Description of first aid measures**
- **General information**: No special measures required.
- **After inhalation**: Grinding dust: Supply fresh air; consult doctor in case of complaints.
- **After skin contact**: Generally the product does not irritate the skin.
- **After eye contact**: Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Mechanical effects only.
- **After swallowing**: Grinding dust: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

**Information for doctor**:
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**: The product is not flammable.
- **Special hazards arising from the substance or mixture**: No further relevant information available.
- **Advice for firefighters**
- **Protective equipment**: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**: Not required.
- **Environmental precautions**: No special measures required.
- **Methods and material for containment and cleaning up**: Pick up mechanically.
- **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.

7 Handling and storage

- **Handling**:
- **Precautions for safe handling**: Only adequately trained personnel should handle this product. For use in dentistry only.
- **Information about fire - and explosion protection**: No special measures required.
- **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**: None.
Trade name: IPS e.max ZirPress

- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
  - Control parameters
  - Ingredients with limit values that require monitoring at the workplace: Not required.
  - Additional information: The lists valid during the making were used as basis.
  - Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: Usual hygienic measures for dental practice.
    - Respiratory protection: Use respiratory protective device against the effects of dust.
    - Protection of hands: Not required.
    - Material of gloves
      - Penetration time of glove material
      - Eye protection: Always wear safety goggles during mechanical processing (grinding, sawing/cutting, drilling, milling).

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Solid
      - Colour: According to product specification
    - Odour:
      - Odourless
    - Odour threshold:
      - Not determined.
  - pH-value:
    - Not applicable.

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

- Flash point:
  - Not applicable.

- Flammability (solid, gaseous):
  - Product is not flammable.

- Self-igniting:
  - Not determined.

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

- Explosion limits:
  - Lower:
    - Not determined.
  - Upper:
    - Not determined.

- Vapour pressure:
  - Not applicable.

- Density:
  - Not determined.

- Relative density:
  - Not determined.

- Vapour density:
  - Not applicable.

- Evaporation rate:
  - Not applicable.

- Solubility in / Miscibility with water:
  - Insoluble.
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability: Stable under normal handling and storage conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitisation: No sensitizing effects known.
- Additional toxicological information:
  - The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Generally not hazardous for water
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation
  - Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
Trade name: **IPS e.max ZirPress**

(Contd. of page 4)

### 14 Transport information

- **UN-Number**: Void
- **UN proper shipping name**: Void
- **Transport hazard class(es)**: Void
- **Packing group**: Void
- **Environmental hazards**: No
- **Marine pollutant**: Not applicable.
- **Special precautions for user**: Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.
- **UN "Model Regulation"**: -

### 15 Regulatory information

- **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 EC-directive 93/42/EEC.
- **Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

### 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 Organization
- **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 Harmonized System of Classification and Labelling of Chemicals
- **EINECS**: European Inventory of Existing Commercial Chemical Substances
- **CAS**: Chemical Abstracts Service (division of the American Chemical Society)