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

· 1.1 Product identifier
  · Trade name: VivaStyle Paint On Plus

· 1.2 Relevant identified uses of the substance or mixture and uses advised against
  · Application of the substance / the mixture: Tooth whitening varnish

· 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
    Flam. Liq. 2 H225: Highly flammable liquid and vapour.
    Eye Irrit. 2 H319: Causes serious eye irritation.

· 2.2 Label elements
  · Labelling according to Regulation (EC) No 1272/2008
    The product is classified and labelled according to the CLP regulation.

· 2.2.1 Hazard pictograms
  · GHS02
  · GHS07

· 2.2.2 Signal word: Danger

· 2.2.3 Hazard statements
  · H225: Highly flammable liquid and vapour.
  · H319: Causes serious eye irritation.

· 2.2.4 Precautionary statements
  · P102: Keep out of reach of children.
  · P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  · P280: Wear protective gloves/protective clothing/eye protection/face protection.
  · P233: Keep container tightly closed.
  · P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  · P337+P313: If eye irritation persists: Get medical advice/attention.

· Additional information:
Trade name: VivaStyle Paint On Plus

- Regulation (EC) No 1223/2009 on cosmetic products
  Contains hydrogen peroxide. Avoid contact with eyes. Rinse immediately if product comes into contact with them. Not to be used on a person under 18 years of age. To be only sold to dental practitioners. For each cycle of use, the first use to be only done by dental practitioners or under their direct supervision if an equivalent level of safety is ensured. Afterwards to be provided to the consumer to complete the cycle of use. Keep out of the reach of children.

- 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: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>200-578-6</td>
<td>ethanol</td>
<td>50-100%</td>
</tr>
<tr>
<td>7722-84-1</td>
<td>231-765-0</td>
<td>hydrogen peroxide solution</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

- 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: Immediately remove any clothing soiled by the product.
  - After inhalation:
    Supply fresh air or oxygen; call for doctor.
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; call for medical help immediately.

- 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.
  - For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.

- 5.3 Advice for firefighters
  - Protective equipment:
    Wear self-contained respiratory protective device.
    No special measures required.
Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep container tightly sealed.
Protect from heat and direct sunlight.

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:

<table>
<thead>
<tr>
<th>CAS: 64-17-5 ethanol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL ()</td>
<td>Long-term value: 1920 mg/m³, 1000 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 7722-84-1 hydrogen peroxide solution</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL ()</td>
<td>Short-term value: 2.8 mg/m³, 2 ppm</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 1.4 mg/m³, 1 ppm</td>
</tr>
</tbody>
</table>

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.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: VivaStyle Paint On Plus

(Contd. of page 3)

- **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:**
  Protective gloves

  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**
  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:**
  Tightly sealed goggles

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**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Viscous
    - **Colour:** Colourless
    - **Odour:** Alcohol-like
    - **Odour threshold:** Not determined.

  - **pH-value:** 6.5 - 7.5

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** 78 °C

- **Flash point:** 13 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 425 °C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:**
  Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**
  - **Lower:** 3.5 Vol %
  - **Upper:** 15.0 Vol %

- **Vapour pressure at 20 °C:** 59 hPa

- **Density at 20 °C:** 0.85 g/cm³

(Contd. on page 5)
Trade name: **VivaStyle Paint On Plus**

- **Relative density**: Not determined.
- **Vapour density**: Not determined.
- **Evaporation rate**: Not determined.

- **Solubility in / Miscibility with water**: Fully miscible.
- **Partition coefficient (n-octanol/water)**: Not determined.

- **Viscosity**:
  - **Dynamic**: Not determined.
  - **Kinematic**: Not determined.

- **9.2 Other information**: No further relevant information available.

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity**: No further relevant information available.
- **10.2 Chemical stability**: Stable under normal handling and storage conditions.
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Reacts with certain metals.
  - Reacts with alkali (lyes).
  - Reacts with organic substances.
- **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.

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### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity**
  - **Skin corrosion/irritation**: Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation**: Causes serious eye irritation.
  - **Respiratory or skin sensitisation**: Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity**: Based on available data, the classification criteria are not met.
  - **Carcinogenicity**: Based on available data, the classification criteria are not met.
  - **Reproductive toxicity**: Based on available data, the classification criteria are not met.
  - **STOT-single exposure**: Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure**: Based on available data, the classification criteria are not met.
  - **Aspiration hazard**: Based on available data, the classification criteria are not met.

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### 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
**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**
  18 01 06* chemicals consisting of or containing dangerous substances

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

---

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - ADR,RID,ADN, IMDG, IATA 1170

- **14.2 UN proper shipping name**
  - ADR/RID/ADN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
  - IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
  - IATA ETHANOL SOLUTION

- **14.3 Transport hazard class(es)**
  - ADR/RID/ADN
    - **Class** 3 (F1) Flammable liquids.
    - **Label** 3

  - IMDG, IATA
    - **Class** 3 Flammable liquids.
    - **Label** 3

- **14.4 Packing group**
  - ADR,RID,ADN, IMDG, IATA II

- **14.5 Environmental hazards:**
  - Marine pollutant: No

- **14.6 Special precautions for user**
  - **Warning:** Flammable liquids.
  - **Danger code (Kemler):** 33
Trade name: VivaStyle Paint On Plus

- **EMS Number:** F-E,S-D
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**Transport/Additional information:**
- **ADR/RID/ADN**
- **Limited quantities (LQ)** LQ4
- **Transport category** 2
- **Tunnel restriction code** D/E

**UN "Model Regulation":** UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

*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 cosmetic according to Regulation (EC) 1223/2009.

- **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.

- **Relevant phrases**
  - H225 Highly flammable liquid and vapour.
  - H271 May cause fire or explosion; strong oxidiser.
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H332 Harmful if inhaled.

- **Abbreviations and acronyms:**
  - 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)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids, Hazard Category 2
  - Ox. Liq. 1: Oxidising Liquids, Hazard Category 1
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 1A
  - Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- *Data compared to the previous version altered.*