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

- Product identifier
  - Trade name: Opalescence® Office Gel
  - Article number: 71194
  - Index number: SDS 350-001.08
- Relevant identified uses of the substance or mixture and uses advised against
  - Professional Dental Tooth Bleaching Gel, Part 1 of 2
- Application of the substance / the mixture
  - Professional Dental Tooth Bleaching Gel, Part 1 of 2
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Ultradent Products Inc.
    505 W. Ultradent Drive (10200 S)
    South Jordan, UT 84095-3942
    USA
    onlineordersupport@utradent.com

EC Responsible Person
Ultradent Products GmbH
Am Westhover Berg 30
51149 Cologne Germany
Email: infoDe@utradent.com
Emergency Phone: +49(0)2203-35-92-0
- Further information obtainable from: Customer Service
  - Emergency telephone number:
    CHEMTREC (NORTH AMERICA) : (800) 424-9300
    (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

- Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008
    GHS07
    Acute Tox. 4 H332 Harmful if inhaled.
    Eye Irrit. 2 H319 Causes serious eye irritation.
- Labelling according to Regulation (EC) No 1272/2008
  - The Regulation EC 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) shall not apply to a cosmetic in the finished state used in direct physical contact with the human body according to Art. 1.5 (c). Therefore, the product is exempted from the CLP labeling requirements, and no SDS is required by Regulation 1907/2006, Art. 2 (6b), REACH. Therefore, all given data, classification, and information on this SDS are provided solely on a voluntary basis.
- Hazard pictograms GHS07
- Signal word Warning
- Hazard-determining components of labelling:
  - Hydrogen Peroxide
- Hazard statements
  - H332 Harmful if inhaled.
  - H319 Causes serious eye irritation.
\section*{Precautionary statements}
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear eye protection / face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

\section*{Other hazards}
\subsection*{Results of PBT and vPvB assessment}
PBT: Not applicable.
vPvB: Not applicable.

\section*{3 Composition/information on ingredients}
\subsection*{Chemical characterisation: Mixtures}
\subsection*{Description:} Mixture of substances listed below with nonhazardous additions.

\subsection*{Dangerous components:}
\begin{itemize}
  \item CAS: 56-81-5  
  \begin{itemize}
    \item EINECS: 200-289-5  
    \begin{itemize}
      \item Glycerine
      \begin{itemize}
        \item Substance with a Community workplace exposure limit <55%
      \end{itemize}
    \end{itemize}
  \end{itemize}
  \item CAS: 7722-84-1  
  \begin{itemize}
    \item EINECS: 231-765-0  
    \begin{itemize}
      \item Hydrogen Peroxide
      \begin{itemize}
        \item Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332
        \item Substance with a Community workplace exposure limit <8%
      \end{itemize}
    \end{itemize}
  \end{itemize}
  \item CAS: 7681-49-4  
  \begin{itemize}
    \item EINECS: 231-667-8  
    \begin{itemize}
      \item Sodium Fluoride
      \begin{itemize}
        \item Acute Tox. 3, H301; Acute Tox. 2, H310; Skin Irrit. 2, H315; Eye Irrit. 2, H319
        \item Substance with a Community workplace exposure limit ≤0.3%
      \end{itemize}
    \end{itemize}
  \end{itemize}
  \item CAS: 1310-73-2  
  \begin{itemize}
    \item EINECS: 215-185-5  
    \begin{itemize}
      \item Sodium Hydroxide
      \begin{itemize}
        \item Acute Tox. 3, H301; Acute Tox. 4, H312
        \item Substance with a Community workplace exposure limit ≤0.5%
      \end{itemize}
    \end{itemize}
  \end{itemize}
\end{itemize}

\subsection*{Additional information:} For the wording of the listed hazard phrases refer to section 16.

\section*{4 First aid measures}
\subsection*{Description of first aid measures}
\subsection*{General information:}
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
\subsection*{After inhalation:} This product is a viscous gel, therefore chance of inhalation is not possible.
\subsection*{After skin contact:} Generally the product does not irritate the skin.
\subsection*{After eye contact:}
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
\subsection*{After swallowing:} If symptoms persist consult doctor.
\subsection*{Information for doctor:}
\begin{itemize}
  \item Most important symptoms and effects, both acute and delayed No further relevant information available.
  \item Indication of any immediate medical attention and special treatment needed
  No further relevant information available.
\end{itemize}
5 Firefighting measures

· Extinguishing media
· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters:
· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions: Do not allow to enter sewers/surface or ground water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
· 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:
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
· 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: No special requirements.
· Information about storage in one common storage facility: Not required.
· Further information about storage conditions:
  See product labelling.
  Keep container tightly sealed.
· Specific end use(s) Professional Dental Tooth Bleaching Gel, Part 1 of 2

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:
    56-81-5 Glycerine
    WEL (Great Britain) Long-term value: 10 mg/m³
    7722-84-1 Hydrogen Peroxide
    WEL (Great Britain) Short-term value: 2.8 mg/m³, 2 ppm
    Long-term value: 1.4 mg/m³, 1 ppm
    1310-73-2 Sodium Hydroxide
    WEL (Great Britain) Short-term value: 2 mg/m³
Trade name: Opalescence® Office Gel

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

· Exposure controls

· Personal protective equipment:
  · General protective and hygienic measures:
    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.
    Avoid contact with the eyes and skin.

· 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.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:
  Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information
  · Appearance:
    Form: Gel
    Colour: White
    Odour: Odourless
    Odour threshold: Not determined.

  · pH-value at 20 °C: 4.8-6.8

· Change in condition
  · Melting point/freezing point: Undetermined.
  · Initial boiling point and boiling range: Undetermined.

· Flash point: Not applicable.
10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - 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: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity
    Harmful if inhaled.

- LD/LC50 values relevant for classification:
  **ATE (Acute Toxicity Estimates)**

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>5,131-5,394 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>60,764 mg/kg</td>
</tr>
<tr>
<td>Inhalative</td>
<td>&gt;0.261 mg/l</td>
</tr>
</tbody>
</table>

(Contd. on page 6)
## Safety data sheet

according to 1907/2006/EC, Article 31

**Trade name: Opalescence® Office Gel**

(Contd. of page 5)

### 56-81-5 Glycerine

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50 Fish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>7,750 mg/kg (Guinea pig)</td>
<td>&gt;5,000 mg/l (Fish)</td>
</tr>
<tr>
<td></td>
<td>4,100 mg/kg (mouse)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5,570 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;21,900 mg/kg (rat)</td>
<td>10,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>&gt;0.1425 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

### 7681-49-4 Sodium Fluoride

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50 Fish (static)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>52 mg/kg (mouse)</td>
<td>17 mg/l (Fish)</td>
</tr>
<tr>
<td>Dermal</td>
<td>175 mg/kg (rat)</td>
<td></td>
</tr>
</tbody>
</table>

### 1310-73-2 Sodium Hydroxide

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>LC50 Fish</th>
<th>Absolute lethal concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>130-340 mg/kg (rat)</td>
<td>160 mg/l (Fish)</td>
<td>180 ppm (Fish)</td>
</tr>
<tr>
<td>Dermal</td>
<td>1,350 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
- **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.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **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.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:**
    - **56-81-5 Glycerine**
      - EC50 >10,000 mg/l (Bacteria)
      - >10,000 mg/l (daphnia)
    - **7681-49-4 Sodium Fluoride**
      - EC50 272 mg/kg (Algae)
      - 98 mg/kg (daphnia)
    - **Algae Toxicity (static)** 7 mg/l (Algae)
  - **1310-73-2 Sodium Hydroxide**
    - EC50 40.38 mg/l (Water Flea)
  - **Persistence and degradability** No further relevant information available.

(Contd. on page 7)
**Safety data sheet**  
according to 1907/2006/EC, Article 31  

**Trade name: Opalescence® Office Gel**

- **Behaviour in environmental systems:**  
  - Bioaccumulative potential: No further relevant information available.  
  - 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.

- **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:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**
  - HP 8 Corrosive

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

### 14 Transport information

- **UN-Number**
  - ADR, ADN, IMDG, IATA: not regulated

- **UN proper shipping name**
  - ADR, ADN, IMDG, IATA: not regulated

- **Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA
    - Class: not regulated

- **Packing group**
  - ADR, IMDG, IATA: not regulated

- **Environmental hazards:**
  - Not applicable.

- **Special precautions for user**
  - Not applicable.

- **Stowage Category**
  - B

- **Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **UN "Model Regulation":**
  - not regulated

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - REGULATION (EC) No 1907/2006 ANNEX XVII  
    Conditions of restriction: 3

(Contd. on page 8)
Chemical safety assessment:
The product meets the toxicological profile required for cosmetics per the EU cosmetic regulation, Regulation (EC) No. 1223/2009.

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:
H271 May cause fire or explosion; strong oxidiser.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Department issuing SDS: Regulatory Affairs
Contact: Customer Service

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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Liq. 1: Oxidizing liquids – Category 1
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2