

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 13.10.2003

Reviewed on 13.10.2003

### 1 Identification of substance:

· **Product details:**

· **Trade name:** *Illuminé Home 10 %*

· **Application of the substance / the preparation** *Tooth whitening gel*

· **Manufacturer/Supplier:**

*DENTSPLY DeTrey GmbH*

*De-Trey-Str. 1*

*D-78467 Konstanz*

*GERMANY*

*Tel.:*

*+49-7531-583-0*

*Fax:*

*+49-7531-583-104*

· **Further information obtainable from:**

- *Departement Analytical Research / Research & Development for technical information*
- *Departement Marketing & Sales for distribution of the safety data sheets*

### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

<i>CAS: 56-81-5</i> <i>EINECS: 200-289-5</i>	<i>glycerol</i>		<i>50-100%</i>
<i>CAS: 124-43-6</i> <i>EINECS: 204-701-4</i>	<i>hydrogen peroxide--urea</i>	<i>C, O; R 8-34</i>	<i>2.5-10%</i>
<i>CAS: 9003-01-4</i>	<i>Polyacrylsäure</i>	<i>Xi; R 36/38</i>	<i>2.5-10%</i>
<i>CAS: 1310-73-2</i> <i>EINECS: 215-185-5</i>	<i>sodium hydroxide</i>	<i>C; R 35</i>	<i>≤ 2.5%</i>

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

### 3 Hazard identification

· **Hazard description:**

*Xi Irritant*

· **Information concerning to particular hazards to man and environment**

*The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.*

*R 36/38 Irritating to eyes and skin.*

· **Classification system**

*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

### 4 First aid measures

· **After skin contact** *Immediately rinse with water*

· **After eye contact**

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

· **After swallowing**

*Rinse out mouth and then drink plenty of water.*

*Do not induce vomiting; call for medical help immediately.*

### 5 Fire fighting measures

· **Suitable extinguishing agents**

*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

*Formation of toxic gases is possible during heating or in case of fire.*

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· **Protective equipment:** *Wear self-contained respiratory protective device*

### 6 Accidental release measures

- **Person-related safety precautions:** *Wear protective clothing.*
- **Measures for environmental protection:** *Dilute with plenty of water.*
- **Measures for cleaning/collecting:** *Pick up mechanically.*

### 7 Handling and storage

- **Handling** *Product is intended for dental use only.*
- **Information for safe handling:**  
*Observe normal care for working with chemicals.*  
*Open and handle receptacle with care.*
- **Information about fire - and explosion protection:** *No special measures required.*
- **Storage**
- **Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.*
- **Information about storage in one common storage facility:** *Store away from foodstuffs.*
- **Further information about storage conditions:**  
*Keep receptacle tightly sealed.*  
*Store under lock and key and out of the reach of children.*  
*Protect from exposure to the light.*  
*Store in a cool place.*
- **Maximum storage temperature:** *8 °C*
- **Minimum storage temperature** *2 °C*

### 8 Exposure controls and personal protection gear

- **Additional information about design of technical facilities:** *No further data; see item 7.*

· **Ingredients with limit values that require monitoring at the workplace:**

**56-81-5 glycerol**

OES | Long-term value: 10 mg/m<sup>3</sup>

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

- **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 and skin.*
- **Respiratory protection:** *Not required.*
- **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 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.*

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- **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.

- **Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

#### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Pleasant

#### · Change in condition

**Melting point/Melting range:** undetermined  
**Boiling point/Boiling range:** undetermined

- **Flash point:** Not applicable

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

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

- **Density:** Not determined

#### · Solubility in / Miscibility with

**Water:** Soluble

- **pH-value at 20°C:** 6

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
To avoid thermal decomposition do not overheat.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:** Oxygen

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

Irritant

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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### 12 Ecological information:

- **General notes:** *Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.*

### 13 Disposal considerations

- **Product:**
- **Recommendation**



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

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

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

### 15 Regulations

- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials*

- **Code letter and hazard designation of product:**



*Xi Irritant*

- **Risk phrases:**  
*36/38 Irritating to eyes and skin.*
- **Safety phrases:**  
*2 Keep out of the reach of children.*  
*3/7 Keep container tightly closed in a cool place.*  
*14 Keep away from flammable organic substances.*  
*25 Avoid contact with eyes.*  
*46 If swallowed, seek medical advice immediately and show this container or label.*  
*56 Dispose of this material and its container to hazardous or special waste collection point.*

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
NK	85.4

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**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 R-phrases**

34 Causes burns.

35 Causes severe burns.

36/38 Irritating to eyes and skin.

8 Contact with combustible material may cause fire.

**· Department issuing MSDS:** Analytical Research**· Contact:** HotLine for urgent technical support: +49-7531-583-333

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