

Material Safety Data Sheet

According to 91/155 EC

Printing date 13.10.2003

Reviewed on 15.04.2003

1 Identification of substance:

· **Product details:**

· **Trade name:** *Illuminé home 15 %*

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

· **Manufacturer/Supplier:**

DENTSPLY DeTrey GmbH

De-Trey-Str. 1

D-78467 Konstanz

GERMANY

Tel.:

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+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>10-25%</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

O Oxidising

· **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 8 Contact with combustible material may cause fire.

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**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **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.
- **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.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
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/m³

- **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

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- **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.

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

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Colourless
Odour:	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 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

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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.

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:** 5.1 (OC1) Oxidizing substances.
- **Danger code (Kemler):** 58
- **UN-Number:** 3098
- **Packaging group:** III
- **Hazard label** 5.1+8

- **Maritime transport IMDG:**



- **IMDG Class:** 5.1
- **UN Number:** 3098
- **Label** 5.1+8
- **Packaging group:** III
- **EMS Number:** 5.1-02
- **Marine pollutant:** No
- **Proper shipping name:** OXIDIZING LIQUID, CORROSIVE, N.O.S. (UREA HYDROGEN PEROXIDE, SODIUM HYDROXIDE)

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



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 3098
- **Label** 5.1+8
- **Packaging group:** III

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· **Proper shipping name:** *OXIDIZING LIQUID, CORROSIVE, N.O.S. (UREA HYDROGEN PEROXIDE)*

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
O Oxidising*

· **Risk phrases:**

*8 Contact with combustible material may cause fire.
36/38 Irritating to eyes and skin.*

· **Safety phrases:**

*3/7 Keep container tightly closed in a cool place.
14 Keep away from flammable organic substances.
17 Keep away from combustible material.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37 Wear suitable protective clothing and gloves.
60 This material and its container must be disposed of as hazardous waste.*

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
NK	80.0

· **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

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*