

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 13.09.2010

Version: 10

Revision: 13.09.2010

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### 1 Identification of substance:

· **Product details:**

· **Trade name:** Bleach'n Smile Bleichgel

· **Article number:** 23701.-1

· **Application of the substance / the preparation** see point 3)

· **Manufacturer/Supplier:**

Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)

Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-900

www.schuetz-dental.de; e-mail: info@schuetz-dental.de

· **Further information obtainable from:** F&E, Tel. +49 (0)6003/814-100

· **Information in case of emergency:** +49 (0)6003/814-0 (8:00-17:00 h)

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### 2 Hazards identification

· **Hazard description:**



Xn Harmful

· **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 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

· **Classification system**

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

· **GHS label elements**



**Danger**

H272 - May intensify fire; oxidiser.



**Danger**

H318 - Causes serious eye damage.



**Warning**

H302 - Harmful if swallowed.

· **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

· **Response:**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

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**· Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.









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### 3 Composition/information on ingredients

**· Chemical characterization**

**· Description:** Dental-bleaching based on hydrogen-peroxide

**· Dangerous components:**

CAS: 7722-84-1	hydrogen peroxide solution	25-50%
EINECS: 231-765-0	 C,  Xn,  O; R 8-20/22-34	
	Danger:  2.13/1;  3.2/1A	
	Warning:  3.1.O/4, 3.1.I/4	
CAS: 7757-79-1	potassium nitrate	2.5-10%
EINECS: 231-818-8	 O; R 8	
	Danger:  2.14/2	

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

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### 4 First aid measures

**· General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**· After inhalation** Supply fresh air; consult doctor in case of complaints.

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

**· After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.

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

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### 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.

**· For safety reasons unsuitable extinguishing agents** Water with full jet.

**· Protective equipment:** No special measures required.

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### 6 Accidental release measures

**· Person-related safety precautions:** Not required.

**· Measures for environmental protection:** Dilute with plenty of water.

**· Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

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### 7 Handling and storage

**· Handling**

**· Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.

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- **Information about fire - and explosion protection:**  
Substance/product can reduce the ignition temperature of flammable substances.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in refrigerator.
- **Information about storage in one common storage facility:**  
Store away from flammable substances.  
Store away from reducing agents.  
Store away from metals.
- **Further information about storage conditions:**  
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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### 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:**

##### 7722-84-1 hydrogen peroxide solution

OEL	Short-term value: 2.8 mg/m <sup>3</sup> , 2 ppm
	Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm

- **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.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Acid resistant gloves
- **Material of gloves:** Natural rubber, NR
- **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:** Acid resistant protective clothing

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### 9 Physical and chemical properties:

#### · **General Information**

<b>Form:</b>	Pasty
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic

#### · **Change in condition**

<b>Melting point/Melting range:</b>	undetermined
<b>Boiling point/Boiling range:</b>	100°C

· <b>Flash point:</b>	Not applicable
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· <b>Ignition temperature:</b>	400°C
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· <b>Self-igniting:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Vapour pressure at 20°C:</b>	23 hPa
· <b>Density:</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Fully miscible
· <b>pH-value at 20°C:</b>	3
· <b>Viscosity: dynamic at 20°C:</b>	25000 mPas
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Water:</b>	34.9 %

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### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions**  
Reacts with various metals  
Reacts with reducing agents  
Reacts with catalysts  
Acts as an oxidizing agent on organic materials such as wood, paper and fats
- **Dangerous decomposition products:** No dangerous decomposition products known

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### 11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** LD-50/dermal > 2000 mg/kg rab
- **Primary irritant effect:**
- **on the skin:** Slightly irritating.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
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.  
Harmful  
Irritant

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### 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is easily biodegradable.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

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*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

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### 13 Disposal considerations

· **Product:**

· **Recommendation**

*Must be specially treated adhering to official regulations.*

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

· **European waste catalogue**

06 13 99	wastes not otherwise specified
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· **Uncleaned packaging:**

· **Recommendation:** *Disposal must be made according to official regulations.*

· **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

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### 14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 5.1 (OC1) Oxidising substances.

· **Danger code (Kemler):** -

· **UN-Number:** 2014

· **Packaging group:** II

· **Hazard label** 5.1+8

· **Description of goods:** 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION

· **Tunnel restriction code** E

· **Maritime transport IMDG:**



· **IMDG Class:** 5.1

· **UN Number:** 2014

· **Label** 5.1+8

· **Packaging group:** II

· **EMS Number:** F-A,S-Q

· **Marine pollutant:** No

· **Segregation groups** Peroxides

· **Proper shipping name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

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### · Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 5.1
- UN/ID Number: 2014
- Label 5.1+8
- Packaging group: II
- Proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

· UN "Model Regulation": UN2014, HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II

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## 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:

Xn Harmful

### · Hazard-determining components of labelling:

hydrogen peroxide solution

### · Risk phrases:

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

### · Safety phrases:

17 Keep away from combustible material.

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

60 This material and its container must be disposed of as hazardous waste.

### · National regulations

· 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

20/22 Harmful by inhalation and if swallowed.

34 Causes burns.

8 Contact with combustible material may cause fire.

### · Department issuing MSDS: F & E

· Contact: Dr. U. Krichbaum

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**· 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)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

**· \* Data compared to the previous version altered.**

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