

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 13.09.2010

Version: 2

Revision: 13.09.2010

1 Identification of substance:

· **Product details:**

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

· **Article number:** 237050-1

· **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)

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 37/38 Irritating to respiratory system and skin.

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.

H335+H336 - May cause respiratory irritation. May cause drowsiness or dizziness.

Warning

H315 - Causes skin irritation.

· **Prevention:**

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

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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- **Storage:**
P405 Store locked up.
- **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 EINECS: 231-765-0	hydrogen peroxide solution C, Xn, O; R 8-20/22-34 Danger: 2.13/1; 3.2/1A Warning: 3.1.O/4, 3.1.I/4	25-50%
CAS: 56-81-5 EINECS: 200-289-5	glycerol	2.5-10%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate O; R 8 Danger: 2.14/2	< 2.5%

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

4 First aid measures

- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact**
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **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.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **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).

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Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **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:**
 - Keep receptacle tightly sealed.
 - Protect from heat and direct sunlight.
 - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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

WEL Short-term value: 2.8 mg/m³, 2 ppmLong-term value: 1.4 mg/m³, 1 ppm

56-81-5 glycerol

WEL 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.
- **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:** Protective work clothing.

9 Physical and chemical properties:

General Information

Form: Pasty

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Colour:	Red
Odour:	Weak, characteristic
· Change in condition Melting point/Melting range: undetermined Boiling point/Boiling range: 100°C	
· Flash point:	Not applicable
· Ignition temperature:	400°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Vapour pressure at 20°C:	23 hPa
· Density at 20°C:	1.2 g/cm ³
· Solubility in / Miscibility with Water:	Fully miscible
· pH-value at 20°C:	7.3
· Viscosity: dynamic at 20°C:	20000 mPas

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

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
LD-50/dermal > 2000 mg/kg rab

1310-73-2 sodium hydroxide

Oral LD50	2000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **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
Corrosive

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Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must be specially treated adhering to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **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.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· **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):** 559

· **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-H,S-Q

· **Marine pollutant:** No

· **Segregation groups** Peroxides

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

37/38 Irritating to respiratory system and skin.

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).

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

28 After contact with skin, wash immediately with plenty of water.

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**· **Technical instructions (air):**

Class	Share in %
NK	2,5-10

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.

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- 34 Causes burns.
8 Contact with combustible material may cause fire.

· **Department issuing MSDS:** Schütz Dental GmbH

· **Contact:** Dr. U. Krichbaum

· **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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