White smile GmbH

Safety Data Sheet

according to Regulation (EC) No 1907/2006

WHITEsmile Power Whitening YF 40% HP (mixed 32% HP), Light Whitening AC 22%, 32% HP

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

1.1. Product identifier

WHITEsmile Power Whitening YF 40% HP (mixed 32% HP), Light Whitening AC 22%, 32% HP

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

In-Office teeth whitening system; two-component tooth-whitening system based on hydrogen peroxide

1.3. Details of the supplier of the safety data sheet

Company name: WHITEsmile GmbH
Street: Weinheimer Str. 6.
Place: D-69488 Birkenau
Telephone: +49 6201 - 8432190
Telefax: +49 6201 8432190
Internet: www.whitesmile.de

1.4. Emergency telephone number:

Giftinformationszentrum Universitätsklinikum Mainz
Telefon +49 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC
Indications of danger: Xn - Harmful, Xi - Irritant
R phrases:
Harmful if swallowed.
Risk of serious damage to eyes.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Acute toxicity: Acute Tox. 4
Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:
Harmful if swallowed.
Causes serious eye damage.

2.2. Label elements

Hazardous components which must be listed on the label
Hydrogen peroxide solution ... %

Signal word: Danger
Pictograms: GHS07

Hazard statements
H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection.

Revision No: 1,20 GB - EN Revision date: 24.02.2015
**SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

**Chemical characterization**

Mixture of hydrogen peroxide (22%-32%), polyglycol, organic amines, silicon dioxide

**Hazardous components**

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>231-765-0</td>
<td>Hydrogen peroxide solution ... %</td>
<td>20 - &lt; 35 %</td>
</tr>
<tr>
<td>7722-84-1</td>
<td>O - Oxidizing, C - Corrosive, Xn - Harmful</td>
<td>R05-08-20/22-35</td>
</tr>
<tr>
<td></td>
<td>Ox. Liq. 1, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Chronic 3; H271 H302 H332 H314 H412</td>
<td></td>
</tr>
<tr>
<td>203-236-4</td>
<td>3-aminopropyldiethylamine, N,N-diethyl-1,3-diaminopropane</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>104-78-9</td>
<td>C - Corrosive, Xn - Harmful</td>
<td>R10-21/22-34-43</td>
</tr>
<tr>
<td>612-062-00-1</td>
<td>Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H226 H312 H302 H314 H317</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases; see section 16.

**SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General information**

Take off contaminated clothing and wash it before reuse.

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**SECTION 5: Firefighting measures**

### 5.1. Extinguishing media
Suitable extinguishing media
Water, Foam., Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture
In case of fire may be liberated: Gases/vapours, harmful

5.3. Advice for firefighters
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Safe handling: see section 7
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Take up mechanically, placing in appropriate containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
When using do not eat, drink or smoke., Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep only in the original container in a cool, well-ventilated place.
Keep at temperature not exceeding 12 °C (to be specified by the manufacturer).
Protect from the action of light.

Advice on storage compatibility
Do not store together with: food
Keep away from combustible material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7722-84-1</td>
<td>Hydrogen peroxide</td>
<td>1</td>
<td>1.4</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>2.8</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Protective and hygiene measures
Avoid contact with skin, eyes and clothes. Draw up and observe skin protection programme.

Eye/face protection
tightly fitting goggles

Hand protection
Wear protective gloves.
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Skin protection
Wear suitable protective clothing.

Respiratory protection
none

Environmental exposure controls
Do not allow to enter into surface water or drains.

 SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Gel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>LW AC: green, PW YF: yellow</td>
</tr>
<tr>
<td>Odour:</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

Test method

pH-Value (at 20 °C): 8,0 - 9,7, in the mixture

Changes in the physical state

Lower explosion limits:
Upper explosion limits:
Water solubility: miscible

 SECTION 10: Stability and reactivity

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with:
- Oxidising agent, acids, Alkali (lye)
- Reducing agent, Alcohols, Amines

10.4. Conditions to avoid

Keep away from heat.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

 SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Harmful if swallowed.

ATEmix calculated
ATE (inhalative aerosol) 4,687 mg/l
Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure routes</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>7722-84-1</td>
<td>Hydrogen peroxide solution ... %</td>
<td>oral</td>
<td>LD50</td>
<td>1193 - 1270 mg/kg</td>
<td>Rat</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
<td>Rabbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative (4 h)</td>
<td>LC50</td>
<td>(0,17) mg/l</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>inhalative aerosol</td>
<td>ATE</td>
<td>1,5 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td>104-78-9</td>
<td>3-aminopropyl diethylamine, N,N-diethyl-1,3-diaminopropane</td>
<td>oral</td>
<td>LD50</td>
<td>550 mg/kg</td>
<td>Rat</td>
<td>GESTIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>615 mg/kg</td>
<td>Rabbit</td>
<td>GESTIS</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Causes serious eye damage.

Sensitising effects
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Further information
Product has not been tested. The statement is derived from the properties of the components.

SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Method</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>7722-84-1</td>
<td>Hydrogen peroxide solution ... %</td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>16,4 mg/l</td>
<td>96 h Pimephales promelas</td>
<td>IUCLID</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>2,5 mg/l</td>
<td>72 h Chlorella vulgaris</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Further information
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Do not allow to enter into surface water or drains.
Dispose according to legislation.

Waste disposal number of waste from residues/unused products
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**Waste disposal number of used product**

160903  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; oxidising substances; peroxides, for example hydrogen peroxide

Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

160903  WASTES NOT OTHERWISE SPECIFIED IN THE LIST; oxidising substances; peroxides, for example hydrogen peroxide

Classified as hazardous waste.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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**SECTION 14: Transport information**

**Land transport (ADR/RID)**

14.1. UN number:  UN 2014

14.2. UN proper shipping name:  Hydrogen peroxide, aqueous solution

14.3. Transport hazard class(es):  5.1

14.4. Packing group:

- Hazard label:  5.1+8
- Classification code:  OC1
- Limited quantity:  1 L
- Transport category:  2
- Hazard No:  58
- Tunnel restriction code:  E

**Other applicable information (land transport)**

- E2

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**Inland waterways transport (ADN)**

14.1. UN number:  UN 2014

14.2. UN proper shipping name:  HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)

14.3. Transport hazard class(es):  5.1

14.4. Packing group:

- Hazard label:  5.1+8
- Classification code:  OC1
- Limited quantity:  1 L

**Other applicable information (inland waterways transport)**

- E2

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**Marine transport (IMDG)**

14.1. UN number:  UN 2014

14.2. UN proper shipping name:  HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)

14.3. Transport hazard class(es):  5.1

14.4. Packing group:

- Hazard label:  5.1+8
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Special Provisions:
- Limited quantity: 1 L
- EmS: F-H, S-Q

Other applicable information (marine transport)
- E2

Air transport (ICAO)

14.1. UN number: UN 2014
14.2. UN proper shipping name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)
14.3. Transport hazard class(es): 5.1
14.4. Packing group: II
Hazard label: 5.1+8
Limited quantity Passenger: 0.5 L
IATA-packing instructions - Passenger: 550
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 554
IATA-max. quantity - Cargo: 5 L

Other applicable information (air transport)
- E2
Passenger-LQ: Y540

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information
- Water contaminating class (D): 1 - slightly water contaminating

Additional information
- Observe in addition any national regulations!

SECTION 16: Other information

Relevant R-phrases (Number and full text)
- 05 Heating may cause an explosion.
- 08 Contact with combustible material may cause fire.
- 10 Flammable.
- 20/22 Harmful by inhalation and if swallowed.
- 21/22 Harmful in contact with skin and if swallowed.
- 34 Causes burns.
- 35 Causes severe burns.
- 43 May cause sensitisation by skin contact.

Relevant H- and EUH-phrases (Number and full text)
- H226 Flammable liquid and vapour.
- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.
Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)