



Dentalife Australia Pty Ltd **MATERIAL SAFETY DATA SHEET**

[according to GHS and NOHSC:2011(2003)]

Date of Issue: 30/06/17

Version 3 Issued:30/06/17

Next Review: Jun. 2022

## MATERIAL SAFETY DATA SHEET

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### **Product : HYDROGEN PEROXIDE 35%**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Hydrogen Peroxide 35%

**Product Code:** DL5400

**Recommended Use:** Assists in mull preparation for internal bleaching of endodontically treated teeth

### **Contact Information:**

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
Dentalife Australia Pty Ltd	Factory 9 / 505 Maroondah Highway Ringwood VIC 3134 Australia	+61 3 9879 1226

For Advice in an Emergency contact:

Australia Poisons Information Centre (24 hour, 7 days a week) Phone: 13 11 26

New Zealand Poisons Information Centre (24 hour, 7 days a week) Phone: 0800 764 766

Or a Doctor at once

## 2. HAZARD IDENTIFICATION

**2.1 Hazard Classification:**

**2.2 Signal Word:** Warning



**2.3 Label Pictogram**

**2.4 Hazard Statements:**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation

**2.5 Prevention Statements:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

**2.6 Response Statements:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.



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- 2.7 Storage Statements:** Store in upright, original ventilated container in a cool, dry, well ventilated area and out of direct sunlight. Store away from strong bases, other oxidizing agents, metals, organic solvents and aluminium. Stable under normal conditions of storage and use. Decomposes very slowly at ambient temperatures to give off oxygen gas. Keep away from sources of heat, combustibles and other chemicals. Avoid contact with any materials. Do not return unused product to original container
- 2.8 Disposal Statements:** P501 Dispose of waste material through a licensed contractor or facility

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion (% w/v)
Hydrogen Peroxide	7722-84-1	35%
Stabilisers	-	< 1.0%
Water	7732-18-5	To 100.0%

### 4. FIRST AID MEASURES

#### 4.1 Description of Necessary First Aid Measures

- Ingestion:** Immediately rinse mouth thoroughly with water and give plenty of water to drink provided subject is completely conscious. Do NOT induce vomiting. Seek immediate medical assistance without delay.
- Eye:** Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. If pain persists or recurs, seek medical attention.
- Skin:** Wash affected areas with copious quantities of water immediately to remove all traces of hydrogen peroxide solution. Do not use any local application. Remove contaminated clothing, soak in water, then launder before re-use. Seek medical attention if signs or symptoms such as redness, swelling, blistering or irritation develop or persist.
- Inhalation:** If fumes or combustion products are inhaled, remove to fresh air. Seek medical attention if shortness of breath or prolonged coughing occur. Administer oxygen if severely short of breath.

#### 4.2 Medical Attention and Special Treatment

**First Aid Facilities:** Eye wash stations and safety showers should be readily available.

**Comments:** Treat according to person's condition and specifics of exposure.

**Advice to Doctor:** Consult Poisons Information Centre Ph :13 11 26. With eye contact exclude corneal ulceration – recheck up to one week for delayed ulceration. Refer to eye specialist. Ingestion may result in gastrointestinal bleeding or perforation, seek medical attention



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### 5. FIRE FIGHTING MEASURES

- 5.1 **Suitable Extinguishing Equipment:** Carbon dioxide, dry chemical powder, water spray.
- 5.2 **Specific Hazards Arising From The Chemical:** None.
- 5.3 **Special Protective Equipment and Precautions For Fire Fighters:** Wear self-contained breathing apparatus and protective gear to minimise risk of exposure to vapour or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal Precautions, Protective Equipment and Emergency Procedures:** Protective gloves and safety glasses should be worn when handling the Hydrogen Peroxide 35%.
- 6.2 **Methods and Materials for Containment and Clean Up** Recover product and dispose of waste according to Federal, E.P.A., State and Local regulations.
- 6.3 **Environmental Precautions:** Do not allow large quantities to enter drains or surface waters, native or natural environments.

### 7. HANDLING AND STORAGE

- 7.1 **Precautions for Safe Handling:** Ensure cap for bottle is replaced and tightly closed immediately after use. May corrode some forms of plastics, rubber, and coatings. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 7.2 **Conditions for Safe Storage, Including Any Incompatibilities:** Store in upright, original ventilated container in a cool, dry, well ventilated area and out of direct sunlight. Store away from strong bases, other oxidizing agents, metals, organic solvents and aluminium. Stable under normal conditions of storage and use. Decomposes very slowly at ambient temperatures to give off oxygen gas. Keep away from sources of heat, combustibles and other chemicals. Avoid contact with any materials. Do not return unused product to original container.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 **National Exposure Standards:** 1.4 mg/m<sup>3</sup> NOHSC
- 8.2 **Biological Limit Values:** No biological limit allocated.
- 8.3 **Engineering Controls:** No engineering controls necessary.
- 8.4 **Personal Protective Equipment:** Rubber, latex or PVC Gloves. Safety Glasses, goggles or face shield



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Physical Description / Properties

<b>Appearance:</b>	Clear, colourless liquid.
<b>Odour:</b>	Characteristic odour.
<b>pH:</b>	9.5 to 10.5 for 1% solution.
<b>Viscosity (cP @ 25°C):</b>	Not applicable.
<b>Vapor Pressure:</b>	12.8mm Hg (20°C)
<b>Vapor Density:</b>	Not determined
<b>Boiling Point (°C):</b>	107.
<b>Freezing Point (°C):</b>	-33.
<b>Melting Point (°C):</b>	Not applicable.
<b>Solubility In Water (g/100 mL):</b>	Soluble.
<b>Specific Gravity (@ 25°C):</b>	1.13 g/mL @ 20°C.
<b>Flash Point (°C):</b>	Not determined.
<b>Lower Explosive Limit (%):</b>	Not applicable.
<b>Upper Explosive Limit (%):</b>	Not applicable.
<b>Autoignition Temp (°C):</b>	Not available.
<b>Decomposition Temp (°C):</b>	Not available.

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	Not relevant.
<b>10.2 Chemical Stability:</b>	Stable when kept cool and dry.
<b>10.3 Conditions To Avoid:</b>	Direct sunlight and heat.
<b>10.4 Incompatible Materials and Possible Hazardous Reactions:</b>	Acids, alkalis, reducing agents, oxidizing agents, rust, transition metals and their compounds as well as organic and combustible materials When subject to heat from combustion of other materials will decompose to liberate oxygen. This may cause other materials to burn more fiercely. Due to the strong oxidising capability, may cause other materials to ignite or catch fire.
<b>10.5 Hazardous Decomposition Products:</b>	This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.



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### 11. TOXICOLOGICAL INFORMATION

- 11.1 **Likely Route of Exposure:** [X] Inhalation [X] Skin contact [X] Ingestion
- 11.2 **Health Effects From Likely Route of Exposure:**
- Acute**
- Ingestion:** Corrosive if swallowed. May burn the mouth, gullet and stomach. If ingested (swallowed), decomposition may occur in the stomach leading to the production of oxygen gas and distension of the stomach. May cause gastro-intestinal bleeding or perforation. May cause oedema (bleeding) of the throat with obstruction of air passages. (as aqueous solution).
- Eye:** Corrosive. Severe eye irritation, watering, redness and swelling of the eyelids. Risk of serious or permanent eye lesions including damage to cornea. Immediate first aid followed by medical attention is essential. Vapour may cause irritation.
- Skin:** Corrosive. May cause delayed chemical burns. (In some cases), transient whitening of the affected area may occur.
- Inhalation:** Irritating to respiratory tract including nose, throat and lungs. May cause coughing and shortness of breath. Severe exposure may cause pulmonary oedema (fluid in lungs). LC<sub>50</sub> (rats – 4 hours) 2000mg/m<sup>3</sup>; LC<sub>Lo</sub> (mice) – 227ppm.
- Chronic**
- Ingestion:** No known applicable information.
- Skin:** Corrosive. Causes burns.
- Inhalation:** No known applicable information.
- 11.3 **Other Information:** Tests in animals demonstrate no reproductive toxicity.

### 12. ECOLOGICAL INFORMATION

This product has no known ecological hazardous effects

- 12.1 **Ecotoxicity:** Not data available.
- 12.2 **Persistence and Degradability:** Biodegradable.
- 12.3 **Bioaccumulation Potential:** No information available.
- 12.4 **Mobility in Soil:** No information available.
- 12.5 **Other Adverse Effects:** No adverse effects on bacteria are predicted.





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### 13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal Method:** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
- 13.2 Disposal of Contaminated Packaging:** Recycle or landfill.
- 13.3 Environmental Regulations:** Not relevant.

### 14. TRANSPORT INFORMATION

- 14.1 UN Number:** 2014
- 14.2 UN Proper Shipping Name:** Not applicable.
- 14.3 Dangerous Goods Class:**  5.1
- Packing Group:** II.
- 14.4 Environmental Hazards:** Corrosive. 
- 14.5 Special Precautions During Transport:** Not applicable.
- 14.6 HAZCHEM Code:** 2P.
- Additional Shipping Information:** Not applicable

### 15. REGULATORY INFORMATION

- 15.1 SUSDP Poisons Schedule:** S6
- 15.2 Prohibition / Licensing Requirements:** There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.
- 15.3 Industrial Chemicals (Notification and Assessment) Act 1989:** All ingredients are listed on or exempt from the Australia Inventory of Chemical Substances (AICS).



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### 16. OTHER INFORMATION

Product is considered safe if used as intended

**Disclaimer:**

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