



1. Identification of the substance/mixture and of the Company/undertaking:

1.1 Product identifier:

Product Name: Pola Professional 37.5%

1.2 Relevant identified use:

Relevant use: Professional Dental use: To medically bleach endodontically treated teeth, to be performed by a dentist.

1.3 Details of the supplier of the Safety Data Sheet:

Manufacturer / Supplier

SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

Telephone:

+61 3 8727 7111 (Business hours)

Southern Dental Industries Ltd
Block 8, St Johns Court
Swords Road
Santry, Dublin 9, Ireland

Telephone:

+353 1 886 9577 (Business Hours)

Emergency contact number:

Email: ray.cahill@sdi.com.au (Technical Director, SDI Limited)

SDI (North America) Inc.
1279 Hamilton Parkway
Itasca, IL60143, USA

Telephone:

+1 630 361 9200 (Business hours)

SDI Brasil Indústria e Comércio Ltda
Rua Dr. Virgílio de Carvalho Pinto, 612
Pinheiros, São Paulo, 05415-020
Brasil

Telephone:

+ 55 11 3092 7100 (Business Hours)

+61 3 8727 7111

2. Hazard Identification

Classification of the substance/mixture:

Signal word: DANGER



Corrosion

GHS Classification:

Eye Damage (Category 1)

Skin Irritant (Category 2)

STOT (Single exposure) (Category 3)



2. Hazard Identification

Hazard phrase(s):

- H315 Causes skin irritation
- H318 Causes serious eye damage
- H335 May cause respiratory irritation.

Precautionary phrase(s):

Prevention:

- P264 Wash hands thoroughly after handling.
- P261 Avoid breathing fume/vapour/mist.
- P271 Use outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection /face protection.
- P101 If medical advice is needed, have product container and instructions for use at hand.
- P102 Keep out of reach of children.
- P103 Read label instructions for use before use.

Response:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water .
- P321 Specific treatment, refer to Instructions for Use and First Aid Section on this Safety Data Sheet.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- 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.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents in accordance with local official regulations.

Other:

Pola Professional 37.5% causes irritation / damage to skin, eyes, respiratory tract and mucous membrane, and is harmful if swallowed.

3. Composition / Information on ingredients

<u>Composition:</u>	<u>CAS No.</u>	<u>Wt. % w/w</u>	<u>EC No.</u>	<u>Index No.</u>
Pola Professional 37.5%				
Hydrogen peroxide	7722-84-1	30.0 - 37.5	231-765-0	008-003-00-9
Sodium hydroxide	1310-73-2	< 0.5	215-185-5	011-002-00-6

Hazard classification and specific concentration limits, M-factors:

HYDROGEN PEROXIDE: Skin Irrit 2; H315: 35% ≤ C < 50%; Eye Dam. 1; H318 8% ≤ C < 50%; STOT SE 3; H335: C ≥ 35%.

SODIUM HYDROXIDE: specific concentration limits, M-factors: Skin Irrit. 2: H315: 0.5% ≤ C < 2%; Eye Irrit. 2: H319: 0.5% ≤ C < 2%.



4. First Aid Measures

Eye (contact): Immediately flush open eyes with running water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek urgent medical attention. Make sure the patient's, dentist's and auxiliary's eyes are protected.

Skin (contact): Remove contaminated clothing. If skin or hair contact occurs, wash skin and hair with running water. Skin may appear temporarily bleached white. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting, immediately drink lots of water/milk. Seek urgent medical attention.

Inhalation: Not expected. If feeling unwell, remove victim to fresh air and low to rest in a comfortable position.

Most important effects, acute and delayed:

The most important known symptoms and effects are described in section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed:

No data available.

5. Fire Fighting Measures

Suitable extinguishing media: Water spray and carbon dioxide.

Unusual Fire and Explosion Hazards: Contact with other substances may cause fire.
Container explosion may occur under fire conditions.

Unsuitable extinguishing media: Do not use extinguishing media for organic compounds.

Specific hazards arising from the mixture: The product itself does not burn. In the event of fire, product may decompose and release oxygen.

Incompatible materials: Avoid contact with metals, metallic salts, alkalis, flammable substances, and organic solvents.

Special protective equipment: Wear approved self-contained breathing apparatus, full protective clothing long with protective equipment.

Flammability: None expected. Non flammable (product does not burn), however will release oxygen when exposed to high heat.



6. Accidental Release Measures

- Personal precautions: Do not get into eyes, on skin or clothing. Use personal protective equipment. Avoid breathing vapours, mist or gas. Wash thoroughly after handling.
For personal protection see section 8.
- Environmental precautions: Prevent any spillage from entering waterways, drains or sewage system. Use protective eyewear and latex gloves when handling.
- Methods for cleaning up and containment:
Clean up with damp rag. Rinse rag thoroughly with water.
Dispose of as hazardous waste.
- Removal of ignition sources: Eliminate sources of ignition.
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7. Handling and storage

Precautions for safe handling:

Extreme care required when handling the Hydrogen Peroxide mixture.
Wear protective clothing - gloves / face/ eye protection.

Conditions for safe storage, including any biocompatibilities:

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 2° - 8°C (35° - 45°F) and should be kept away from direct sunlight.

Distribution:

During distribution, to our customers, this product can be transported in non-refrigerated conditions between 15° to 25° C. This product can also withstand temperatures up to 40° C for short periods (2 to 3 days) and intermittent peaks up to 50°C.

Specific end use:

Apart from the use mentioned in section 1.2, there are no other uses for the product.



8. Exposure controls / personal protection

Control parameters:

Occupational exposure limits (NOHSC, NIOSH, OSHA,):

Standard name	Cas No	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Hydrogen peroxide	7722-84-1	1	1.4	-	-

NOHSC – National Occupation Health and Safety Commission

NIOSH – National Institute for Occupation Safety and Health

OSHA – Occupational Health and Safety Authority

TWA – Time weighted average

STEL – Short term exposure limit

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday.

Personal protective equipment:

Respiratory protection: Not required under normal conditions of use.

Hand protection: Chemical resistant gloves.

Eye protection: Safety glasses, goggles or face shield.

General safety and hygiene measures: Safety shower and eye bath. Wash thoroughly after handling. Wash contaminated clothing before re-use.

Follow good housekeeping practices and good industrial hygiene in handling this material.

9. Physical and chemical properties

Appearance: Clear, blue gel

Odour: Not applicable

Boiling point: Not established

Melting point: Not established

Specific gravity: Not established

Flash point: Not applicable

Flammable: Not flammable

Autoflammability: Does not self ignite

Explosive properties: Does not present an explosion hazard

Oxidising properties: Strong oxidiser

Vapour pressure (@ 20°C): Not established

Solubility: Soluble in water

Relative density: Not established

Auto-ignition temperature: Not established

Decomposition temperature: Not established

Initial boiling point and boiling range: Not established

pH: pH 6.5 - 8



10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Hydrogen Peroxide Liquid is easily decomposed. Stable under normal conditions of use and storage as indicated on label/instructions for use.
Conditions to avoid:	Heat, moisture direct sunlight.
Materials to avoid:	Metals, strong bases and acids, organic solvents, combustibles.
Hazardous decomposition products:	Hydrogen Peroxide Liquid decomposes to oxygen and water. Under thermal decomposition, product will emit oxygen and steam.
Hazardous reactivity (polymerization):	Will not occur under normal conditions of use and storage.

11. Toxicological information

Toxicological data on ingredients:	Oral LD50 Rat: 805mg/Kg (OECD Test Guideline 401) Oral LD50 Rat: 1193mg/Kg (Literature) Hydrogen Peroxide 35% as test substance. Oral LD50 Rat: 801mg/Kg (Literature) Hydrogen Peroxide 60% as test substance. Inhale LC50 Rat: >0.17mg/L (Literature) Hydrogen Peroxide 50% as test substance. Skin LD50 Rabbit: >6500mg/Kg (Literature) Skin Irritation Rabbit: Strong corrosive (Literature) Eye Irritation Rabbit: Corrosive (Literature) Repeated Dose Toxicity: Mouse 90d changes of parameters of the blood, body weight development negative. Irritative effect on gastro-intestinal tract (OECD) Genotoxicity in Vitro: Microorganisms, cell cultures - no mutagenic effects. Genotoxicity in Vivo: Micronucleus test mouse intraperitoneal - negative.
Carcinogenicity:	Hydrogen Peroxide is not a carcinogenic substance according to MAK, IARC, NTP, OSHA and ACGIH.
Health affects – Acute:	
Acute toxicity:	Harmful ingestion.
Skin corrosion/irritation:	Irritating to skin. With increasing contact length, local erythema or extreme irritation can occur.
Serious eye damage/irritation:	Damaging to eyes. Extreme irritation up to cauterisation. Can cause severe conjunctivitis, cornea damage or irreversible eye damage. Symptoms may occur without delay.



11. Toxicological information...continued

Ingestion:	Harmful if swallowed and can lead to irritation and bleeding of the mucosa. Rapid release of oxygen can cause distention and bleeding of irritation/bleeding of the mucosa. Excessive ingestion can cause damage to internal organs.
Respiratory or skin sensitisation:	Inhalation of vapour can lead to irritation of the respiratory tract.
Germ cell mutagenicity:	No data available.
Carcinogenicity (according to IARC, MAK, NTP, OSHA, and ACGIH):	
Hydrogen peroxide – Group 3 – not classifiable as to its carcinogenicity to humans.	
Reproductive toxicity:	No data available.
Specific target organ toxicity – single exposure:	May cause irritation/damage to eyes, skin and respiratory system. Harmful if swallowed.
Specific target organ toxicity – repeated exposure:	No data available.
Aspiration hazard:	No data available.

12. Ecological information

Self assessment	Biodegradable.
Ecotoxicity:	No data available.
Persistence and biodegradability:	No data available.
Bioaccumulative potential:	None. Hydrogen peroxide quickly decomposes to oxygen and water.
Mobility in soil:	No data available.
Results of PBT and VPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects:	No data available.

13. Disposal considerations

Dispose of in accordance with local, state and national official regulations. Wash containers out with water prior to disposal.	
Contaminated packaging:	Dispose of contaminated packaging as hazardous waste in accordance with local, state and national official regulations.



14. Transport information

Hydrogen peroxide, aqueous solution UN2014 Packing Group II Class 5.1 sub-risk Class 8.

If packed in Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met:

Chemical Kit UN3316 - Class 9.

15. Regulatory information

Classified according to the Australian SUSMP - *Standard for the Uniform Scheduling of Medicines and Poisons*, as follows: Schedule 6 - POISON

16. Other information

For professional use only. Use as directed.

The information provided herein is given in good faith, but no warranty expressed or implied is made.

Prepared by: SDI Limited
3-13 Brunsdon Street, Bayswater
Victoria, 3153, Australia

Phone Number:
+61 3 8727 7111

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Contact: R&D Director
