

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

1.1 Product identifier:

Product Name: Pola Professional 35%

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

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2. Hazard Identification

Classification of the substance/mixture:

Pola Professional Liquid:

Hazard Classification according to GHS:

Signal word: DANGER





2. Hazard Identification...continued

Pola Professional 35% Liquid (cont'd):

GHS Classification:

Eye Damage (Category 1) Skin Irritant (Category 2)

STOT (Single exposure) (Category 3)

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 of 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 35% Liquid is corrosive and causes irritation/damage to skin, eye and

respiratory tract/mucous membrane.



2. Hazard Identification...continued

Pola Professional Powder:

SIGNAL WORD: WARNING



GHS Classification: Skin irritant 2 Eye Irritant 2 STOT SE (respiratory tract) 3

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

Prevention:

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

P271 Use in a well-ventilated area

Response:

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Disposal of container/container in accordance local regulation.

Other: **Pola Professional Powder** is hazardous. It is fluffy and easily airborne. Limit disturbance

of the powder pot and avoid inhalation of any airborne dust.

3. Composition / Information on ingredients

Pola Professional 35% Liquid:

<u>CAS No.</u> <u>Wt. % w/w</u> <u>EC No.</u> <u>Index No.</u> Hydrogen peroxide 7722-84-1 35.0 231-765-0 008-003-00-9

Hazard classification and specific concentration limits, M-factors:



HYDROGEN PEROXIDE: Skin Irrit 2; H315: $35\% \le C < 50\%$; Eye Dam. 1; H318 $8\% \le C < 50\%$; STOT SE 3; H335: $C \ge 35\%$.

3. Composition / Information on ingredients...continued

Pola Professional Powder:

<u>Composition</u>: <u>CAS No.</u> <u>Wt. % w/w</u> <u>EC No.</u> <u>Index No.</u>

Silicone dioxide powder - 70.0-75.0 - -

Hazard classification:

SILICON DIOXIDE: Skin irritant 2; Eye Irritant 2; STOT SE (respiratory tract) 3. H315; H319; H335.

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: Remove victim from exposure to fresh air. If rapid recovery does not occur or

if feeling unwell, seek urgent medical attention.

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. Powder decomposes to sulfur oxides, oxygen, carbon monoxide,

carbon dioxide.

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, respiratory protection 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. Wear full protective clothing.

Removal of ignition sources: Eliminate all sources of ignition.

7. Handling and storage

<u>Precautions for safe handling:</u> Extreme care required when handling the Hydrogen Peroxide

Liquid. Container may be under pressure. Remove cap with caution. Replace caps immediately after use. Care when handling the Pola Professional Powder to avoid disturbance, as the powder is easily airborne - avoid inhalation and contact with

eyes.

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.

<u>Distribution:</u> 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	STEL (ppm)	STEL (mg/m ³)
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			(mg/m³)		
Hydrogen peroxide	7722-84-1	1	1.4	-	-

8. Exposure controls / personal protection.....continued

NOHSC – National Occupation Health and Safety Commission

NIOSH – National Institute for Occupation Safety and Health

OHSA – 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.

Avoid breathing dust.

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

		Pola Professional 35% Li	quid	Pola	Professional
Pov	vder				
	Appearance:	Clear, colourless liquid		Fluffy white speckled powder.	
	Odour:	Not applicable		Not applicat	ole
	Boiling point:	126°C		Not applicat	ole
	Melting point:	-40°C		Not established	
	Specific gravity:	1.13		Not establish	hed
	Flash point:	Not applicable		Not applicat	ole
	Flammable:	Not flammable		Not flamma	ble
	Autoflammability:	Does not self ignite		Does not se	lf ignite
	Explosive properties:	Does not present an explo	sion hazard	Does not pro an explosion	
	Oxidising properties:	Strong oxidiser		Strong oxidi	ser
	Vapour pressure (@ 30°C):	23.3 mm Hg		Not volatile	
	Solubility:	Soluble in water		Not soluble	in water
	Relative density:	1.13g/mL @ 25°C	Not established	d	
	Auto-ignition temperature:	Not established		Not establis	hed



Decomposition temperature: Not established Not established PH: Not established Not established

10. Stability and Reactivity

Reactivity: Product is stable under directed instructions for use and storage.

Chemical Stability: Hydrogen Peroxide Liquid is easily decomposed. Powder is stable.

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.

Powder decomposes to sulfur oxides, oxygen, carbon

monoxide, carbon dioxide.

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, irritive

effect on gastro-intestinal tract (OECD).

Genetoxicity 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 by inhalation and 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 conjuncitivits, 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 rel;ease 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 and

dust/powder 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: Pola Professional 35% Liquid - Biodegradable.

Pola Professional Powder - Data not yet available.

Ecotoxicity: No data available.

Persistence and biodegradeability: No data available.

Bioaccumulative potential: No data available for Pola Professional powder.

For Pola Professional 35% liquid: 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 (such as hazardous to ozone layer): No data available.

13. Disposal considerations

Dispose of in accordance with local official regulations. Wash containers out with water prior to disposal.

Contaminated packaging:

Dispose of contaminated packaging as hazardous waste in accordance with local official regulations

Page 9 of 9

Date / Revised 02.02.2015 Revision: 2

14. Transport information

Hydrogen peroxide, aqueous solution UN2014 Packing Group II Class 5.1 subsidiary-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.

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