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

1.1 Product identifier:

Product Names: Pola Day 3% Hydrogen Peroxide Gel;
Pola Day 6% Hydrogen Peroxide Gel.

1.2 Relevant identified use:

Relevant use: Dental use:
To remove discoloration of teeth under the supervision of 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)

SDI (North America) Inc.
1279 Hamilton Parkway
Itasca, IL 60143, USA

Telephone:

+1 630 361 9200 (Business hours)

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

Telephone:

+353 1 886 9577 (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)

Emergency contact number: +61 3 8727 7111

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

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2. Hazard Identification

Classification of the substance/mixture:

HAZARD Classification according to GHS:

Pola Day 3% is NOT classified as a hazardous substance.

Pola Day 6% is classified as hazardous as follows:

Signal word: WARNING

Exclamation mark

2. Hazard Identification

GHS Classification: Eye Irrit. 2

Precautionary phrases:

H319 Causes serious eye irritation

Prevention:

P264 Wash skin thoroughly after handling.
P280 Wear eye protection/face protection.

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.
P337 + P313	If eye irritation persists: Get medical advice / attention.
P101	If medical advice is needed, have product packaging and leaflet at hand.
P102	Keep out of reach of children.
P103	Read instructions before use.

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3. Composition / Information on ingredients

Composition:	CAS No.	Wt. %	EC No.	Index No.
Hydrogen Peroxide Gel				
Hydrogen peroxide	7722-84-1	3.0 - 6.0	231-765-0	008-003-00-9

Hazard classification: Eye Irrit 2; H319; 5% ≤ C < 8%

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4. First Aid Measures

Eye (contact):	Flush opened eye with running water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
Skin (contact):	Remove contaminated clothing. Wash skin with plenty of water. If irritation develops, seek medical attention.
Ingestion:	Do NOT induce vomiting, drink lots of water/milk. Seek medical attention.
Inhalation:	Side effects not expected. If feeling unwell, contact a doctor or Poison Information Centre.

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.

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5. Fire Fighting Measures

Suitable extinguishing media:	Water spray, dry chemical, carbon dioxide, protein type air foams.
Unusual Fire and Explosion Hazards:	Heat may generate irritating vapours, e.g. CO, CO_2. acrylate monomers and hydrocarbons.
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, irritating vapours, e.g. CO, CO_2. acrylate monomers and hydrocarbons. Incompatible materials: Avoid contact with metals, metallic salts, alkalis, flammable substances, and organic solvents.
Special protective equipment:	Wear approved respirator and protective gear. Use spray to cool containers.
Advice for firefighters:	Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

Personal precautions:	Do not get into eyes, on skin or clothing. Use personal protective equipment.
Environmental precautions:	Prevent any spillage from entering waterways, drains or sewage system.
Methods for cleaning up & containment of spill:	Mop up using absorbent paper or towel. Wash the spillage area clean with water. Dispose of in accordance with local regulations.

Removal of ignition sources, provision of sufficient ventilation, control of dust:

- Remove sources of ignition.

7. Handling and storage

Precautions for safe handling: Care required when handling Hydrogen Peroxide mixtures.

Conditions for safe storage, including any biocompatibilities:

Storage by the end user (Dental Clinic) is recommended to be at temperatures between 2 ^{o} - 25^{o}C (35^{o} - 77^{o}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^{o} to 25^{o} C. This product can also withstand temperatures up to 40^{o} C for short periods (2 to 3 days) and intermittent peaks up to 50^{o}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
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 & safety practice. Wash hands before breaks & at end of workday.
Personal protective equipment:	
Respiratory protection:	Not required under normal conditions of use.
Hand protection:	Rubber, latex or PVC gloves.
Eye protection:	Safety glasses, goggles or face shield.
General safety and hygiene measures:	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 gel
Odour:	Spearmint
Boiling point:	Not applicable
Melting point:	Not applicable
Specific gravity:	1.1
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^oC):	Not established
Relative density:	Not established
Solubility:	Soluble in water
Auto-ignition temperature:	Not established
Decomposition temperature:	Not established
pH:	5.9 – 6.9

10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Hydrogen Peroxide Liquid is easily decomposed. Stable under normal conditions of storage and use as per label/instructions.
Conditions to avoid:	Heat and sunlight
Materials to avoid:	Metals, strong bases and organic solvents
Hazardous decomposition products:	None under normal conditions.

Hazardous reactivity (polymerization): Will not occur.

11. Toxicological information

Toxicological data on ingredients:

Hydrogen peroxide:	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.
Acute toxicity:	Pola Day 6% is an irritant/damaging to eyes. May be irritant to mucous membranes and skin.
Serious eye damage/irritation:	Pola Day 6% is irritant to eyes.
Skin corrosion/irritation:	No side effects expected for small amounts. May be irritant to mucous membranes and skin.
Ingestion:	No side effects expected for small amounts.
Respiratory or skin sensitisation:	None expected.
Germ cell mutagenicity:	No data available.

11. Toxicological information

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 to eyes, skin and inhalation.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No data available.

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12. Ecological information

Self assessment: Slightly hazardous for water. Do not allow large quantities to reach sewage systems and waterways.

Ecotoxicity: No data available.

Persistence and biodegradeability: No data available.

Bioaccumulative potential: No data available.

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.

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13. Disposal considerations

Dispose of in accordance with local official regulations.

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

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14. Transport information

Pola Day - Hydrogen peroxide 3% and 6% products are not classified as Dangerous Goods for air, sea or road/rail transport.

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15. Regulatory information

Pola Day 3% is NOT classified according to the Australian SUSMP - *Standard for the Uniform Scheduling of Medicines and Poisons.*

Pola Day 6% IS classified according to the Australian SUSMP - *Standard for the Uniform Scheduling of Medicines and Poisons,* as follows:

Schedule 5 - CAUTION

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16. Other information

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

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Department issuing SDS: Research and Development

Contact: R&D Director
