SAFETY DATA SHEETS

This SDS packet was issued with item: 076372403

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070888891 076371637 076371892 076371975 076372296 076373799

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

076371876 076372270 076372387



1. Identification - Substance / Preparation and Company name

Product Names:		<mark>drogen Peroxide Gel;</mark> drogen Peroxide Gel.
Recommended use:	To remove discolo	ration of teeth under the supervision of a dentist
<u> Manufacturer / Supplie</u>	<u>r</u>	
SDI Limited 3-13 Brunsdon Street, Bayswater Victoria, 3153, Australia		SDI Inc. 729 N.Route 83, Suite 315 Bensenville 60106 IL, USA
<u>Telephone</u> :		<u>Telephone</u> :
+61 3 8727 7111 (Business hours)		630 238 8300 (Business hours)
Southern Dental Industries Ltd Block 8, St Johns Court Swords Road Santry, Dublin 9, Ireland		SDI Brasil Indústria e Comércio Ltda Rua Dr. Virgílio de Carvalho Pinto, 612 Pinheiros, São Paulo, 05415-020 Brasil
<u>Telephone</u> :		<u>Telephone</u> :
+353 1 886 9577 (Business Hours)		+55 11 3092 7100 (Business Hours)
Emergency contact number: +61 3 8727 7111		

2. Composition / Information on ingredients

Composition:	<u>CAS No.</u>	<u>Wt. %</u>
Hydrogen Peroxide Gel		
Hydrogen peroxide	7722-84-1	7.5 - 9.5

3. Hazard Identification

POLA DAY 7.5% - HAZARDOUS; NOT DANGEROUS.

POLA DAY 9.5% - DANGEROUS, HAZARDOUS.

Hazard Classification according to GHS: Pola Day 7.5% and Pola Day 9.5% are classified as hazardous as follows:

<u>Pola Day 7.5%:</u> WARNING Serious eye damage/eye irritation - Category 2A

Hazard phrases:	H319	Causes serious eye irritation
Precautionary phrases:	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
	P280	Wear eye protection/face protection.
	P305,	P351, P338 - IF IN EYES: Rinse cautiously with water for several minutes.



3. Hazard Identification (Cont'd)

Pola Day 7.5% Cont'd):

Precautionary phrases (Cont'd) Remove contact lenses, if present and easy to do. Continue rinsing. P337, P313 - If eye irritation persists: Get medical advice / attention. P331 If swallowed, do NOT induce vomiting. P264 Wash skin thoroughly after handling. P235 Keep in a cool place. <u>Pola Day 9.5%:</u> DANGER Serious eye damage/eye irritation - Category 1 Hazard phrases: H318 Causes serious eye damage. Precautionary phrases: P280 Wear eye protection/face protection. P265 P261 P329 IF IN EVES: Piace cautious humith water for several minutes

P280 Wear eye protection/face protection.
P305, P351, P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P331 If swallowed, do NOT induce vomiting.
P310 - Immediately call a POISON CENTRE or doctor / physician.
P264 Wash skin thoroughly after handling.
P235 Keep in a cool place.
P102 Keep out of reach of children

4. First Aid Measures

Eye (contact):	Flush opened eye with running water for 15 minutes. Seek immediate medical attention.
Skin (contact):	Remove contaminated clothing. Wash skin with plenty of water.
Ingestion:	Do NOT induce vomiting, drink lots of water/milk. Seek immediate medical attention.
Inhalation:	Side effects not expected.

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.
Special protective equipment:	Wear approved respirator and protective gear. Use spray to cool containers.

6. Accidental Release Measures

Personal precautions:	Do not get into eyes, on skin or clothing.
Environmental precautions:	Prevent any spillage from entering waterways, drains or sewage system.
Methods for cleaning up:	Mop up using absorbent paper or towel.



7. Handling and storage

Handling

Care required when handling Hydrogen Peroxide mixtures.

Storage

Storage by the end user (Dental Clinic) is recommended to be at temperatures between $2^{\circ} - 25^{\circ}C$ ($35^{\circ} - 77^{\circ}F$) 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.

8. Exposure controls / personal protection

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:	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°C):	Not established
Relative density:	Not established
Solubility:	Soluble in water

10. Stability and Reactivity

Stability:	
Conditions to avoid:	

Stable under normal conditions Heat and sunlight



10. Stability and Reactivity (Cont'd)

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

Acute toxicity:	Pola Day 7.5% is an irritant to eyes, Pola Day 9.5% is damaging to eyes. May be irritant to mucous membranes and skin.
Eye (contact):	Pola Day 7.5% is irritant to eyes, Pola Day 9.5% is damaging to the eyes.
Skin (contact):	No side effects expected for small amounts. May be irritant to mucous membranes and skin.
Ingestion:	No side effects expected for small amounts.
Inhalation:	None expected.

12. Ecological information

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

13. Disposal considerations

Dispose of in accordance with local official regulations.

14. Transport information

Pola Day 7.5%- Hydrogen peroxide 7.5% is not classified as a Dangerous Good for air, sea or road/rail transport.

Pola Day 9.5%- Hydrogen peroxide 9.5% is classified as a Dangerous Good for air, sea or road/rail transport, as follows:

Hydrogen peroxide, aqueous solution UN2984 Packing Group III Class 5.1.

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

Pola Day 7.5% and 9.5% are classified according to the Australian SUSMP - *Standard for the Uniform Scheduling of Medicines and Poisons*, as follows:

Schedule 6 - POISON



16. Other information

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

Prepared by:	SDI Limited		Phone Number:
	3-13 Brunsdon Victoria, 3153,	Street, Bayswater , Australia	+61 3 8727 7111
Department i	ssuina MSDS:	Research and Developm	ent

Department issuing MSDS:Research and DevelopmContact:Operations Director

SDI Limited

Version No: 5.1.1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: 28/01/2016 Print Date: 23/03/2016 Initial Date: Not Available L.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Pola Day 7.5% Hydrogen Peroxide Gel
Synonyms	Not Available
Other means of identification	Not Available
Recommended use of the chemical and restrictions on use	

Recommended use of the chemical and restrictions on use

Relevant identified uses	Dental use: To remove discoloration of teeth under the supervision of a dentist.
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil	Hansestrasse 85 Cologne D-51149 Germany
Telephone	+61 3 8727 7111 (Business Hours)	+55 11 3092 7100	+49 0 2203 9255 0
Fax	+61 3 8727 7222	+55 11 3092 7101	+49 0 2203 9255 200
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au
Email	info@sdi.com.au	brasil@sdi.com.au	germany@sdi.com.au
Registered company name	mpany name SDI (North America) Inc.		
Address	1279 Hamilton Parkway IL Itasca 60143 United States		
Telephone	+1 630 361 9200 (Business hours)		
Fax	Not Available		
Website	Not Available		
Email	USA.Canada@sdi.com.au		

Emergency phone number

Association / Organisation	SDI Limited	Not Available	Not Available
Emergency telephone numbers	+61 3 8727 7111	Not Available	Not Available
Other emergency telephone numbers	ray.cahill@sdi.com.au	Not Available	Not Available
Association / Organisation	Not Available		
Emergency telephone numbers	+61 3 8727 7111		
Other emergency telephone numbers	Not Available		

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Eye Irritation Category 2A

Label elements



GHS label elements	
SIGNAL WORD	WARNING
Hazard statement(s)	
H319	Causes serious eye irritation.

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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Precautionary statement(s) 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.

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7722-84-1	7.5	hydrogen peroxide

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casuality can comfortably drink. Seek medical advice.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
Special protective equipm	Special protective equipment and precautions for fire-fighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 		
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous furnes.May emit corrosive furnes.Decomposes on heating and produces; carbon dioxide (CO2) carbon monoxide (CO) 		

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to contairers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.
	 Observe manufacturer's storage and nanoling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	Do not store in direct sunlight. Store between 5 and 25 deg. C.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packaging as recommended by manufacturer. Check that containers are clearly labelled and free from leaks
Storage incompatibility	Avoid strong bases.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	hydrogen peroxide	Hydrogen peroxide	1.4 mg/m3 / 1 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	hydrogen peroxide	Hydrogen peroxide	1 ppm	Not Available	Not Available	TLV® Basis: Eye, URT, & skin irr

US NIOSH Recommended Exposure Limits (RELs)	hydrogen peroxide	High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide		gen 1.4 1 pp	mg/m3 / om	Not Available	Not Availa	able	Not Available
EMERGENCY LIMITS									
Ingredient	Material name		TEEL-1	TEEL-2				TEEL	-3
hydrogen peroxide	Hydrogen peroxic	Hydrogen peroxide		ilable Not Available			Not Available		
hydrogen peroxide	Hydrogen peroxic	n peroxide - 30% 33 ppm			170 ppm			330 pp	m
Ingredient	Original IDLH	nal IDLH			IDLH				
hydrogen peroxide	75 ppm	75 ppm			ppm				

MATERIAL DATA

Exposure controls

Appropriate engineering Comparison of the comparison of							
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Appropriate engineering Imminitian (in start and in the content of the content o		Type of Contaminant:		Air Speed:			
Appropriate engineering add tumes, tipkling (released at two velocity into zone of active generation) fmm,) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into fmm,) 12.5 10 m/s (200-500) grinding, abraice biseling, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid (2.5-10 m/s (300-2000) 2.5-10 m/s (300-2000) Within each range the appropriate value depends on: Upper end of the range Upper end of the range 2.5-10 m/s (300-2000) Lower end of his range Upper end of the range 1.5 Stutbing room air currents 2.5 2. Contaminants of hy toxicity or of nuisance value only. 2.5 Contaminants of high toxicity. 3.8 High production, heavy use 4.1 Lange hood roleage air mass in motion 4.5 Small hood-Social control only. Simple theory shows that air velocity fails rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the catacitation point. Sther mechanical consolitation, producing performance defields within the extraction point. Sthere extraction point (in simple cases.) Freefore the arage in a singe of the sample should be a niminent of 12 m/s (22-40 Min) for extraction or solvente generation in the extraction point. Sthere extraction point, Sthere policy document, descriting the weeking of a simple extraction spilem same installed or used. Personal protection Stafteg glasses with aids shields. <td< td=""><th></th><td>solvent, vapours, degreasing etc., evaporating from tank (in still air).</td><td></td><td></td></td<>		solvent, vapours, degreasing etc., evaporating from tank (in still air).					
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3: Intermittent, low production. 3: High production, heavy use 4: Large hood or large air mass in motion 4: Small hood-local control only Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be a dijusted, accordingly, after reference to distance from the contanniant gource. The air velocity at the extraction fan, for example, should be a minumon 11 2: nrk 2:00-400 frmi) (for extraction of solvents generated in a tank 2: meters distant from the extraction point. Other methanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used. Personal protection Safety glasses with side shields. Charmical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate initiants. A written policy document, describing the wearing of demical sports. Bedied registrom immediately and terms or and and subtible equipment should be readity available. In the event of terms absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-ad personnel should here as soon approximate, and an account of injury experience. Medical and first-ad personnel should be trans and usuable equipment should be readity available. In the event of terms absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-ad personnel should be trans ato meashould be taread or ean environment only af		1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
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Other protection P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. Eye wash unit. 	Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 					
Other protection P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. Eye wash unit. 	Body protection	See Other protection below					
	Other protection	 P.V.C. apron. Barrier cream. Skin cleansing cream. 					
	Thermal hazards	Not Available					

Respiratory protection

Type B Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	B-AUS	-	B-PAPR-AUS / Class 1
up to 50 x ES	-	B-AUS / Class 1	-
up to 100 x ES	-	B-2	B-PAPR-2 ^

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear gel with spearmint odour, mixes with water.				
Physical state	Gel	Relative density (Water = 1)	1.1		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	5.9-6.9	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	Not Available	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Not Available	Oxidising properties	Not Available		
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available		
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available		
Vapour pressure (kPa)	Not Available	Gas group	Not Available		
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available		
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available		

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.
	Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of

	the skin (spongiosis) and intracellular oedema of the epidermis.						
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.						
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.						
Dele Dev 7.5% Hudregen	ΤΟΧΙΟΙΤΥ	IRRITATION					
Pola Day 7.5% Hydrogen Peroxide Gel	Not Available	Not Available					
		IRRITATION					
hydrogen peroxide	dermal (rat) LD50: 3000-5480 mg/kg ^[1]	Nil reported					
	Inhalation (rat) LC50: 2 mg/L/4H ^[2]	 					
	Oral (rat) LD50: 75 mg/kg ^[1]	ł					
Legend:	 Value obtained from Europe ECHA Registered Substances - A extracted from RTECS - Register of Toxic Effect of chemical Sub 		rom manufacturer's SDS. Unless otherwise specified data				
HYDROGEN PEROXIDE	<text><text><text><text><text><list-item><list-item><list-item><text><text></text></text></list-item></list-item></list-item></text></text></text></text></text>	er exposure to the material cease following exposure to high levels a non-atopic individual, with abri flow pattern, on spirometry, with the ocytic inflammation, without eosir in infrequent disorder with rates in disorder that occurs as result of o iosure ceases. The disorder is ch ins contain an additive stabiliser. / decomposed by catalase in nor ius, liver, and kidney, suggesting before absorption. When applied in a intact cells and tissues. It is form itital one-electron step to O2 follow liver. based on the results of toxic us administration of hydrogen peroxide posing hydrogen peroxide, is pres blood and most tissues, it rapidly reath at levels ranging from 1.0+, and adenocarcinomas have been observed. Papilloma development I the anges and chromosomal aberrat a (<i>Salmonella typhimurium</i>) and the <i>thial melanogaster</i> or to mammali the hydrogen peroxide, but experind to approximately 630 mg/kg/day)7 olved in water were injected into the deaths and malformations was door any) given as the sole drinking fluice hall testing.	s of highly irritating compound. Key criteria for the diagnosis upt onset of persistent asthma-like symptoms within minutes he presence of moderate to severe bronchial hyperreactivity hophilia, have also been included in the criteria for diagnosis elated to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance aracterised by dyspnea, cough and mucus production. mal cells. In experimental animals exposed to hydrogen its distribution to those sites. to tissue, solutions of hydrogen peroxide have poor med by reduction of oxygen either directly in a two-electron wed by dismutation to hydrogen peroxide. ity studies, the lungs, intestine, thymus, liver, and kidney may be oxide, the lungs were pale and emphysematous. Following stine and thymus (IARC 1985). Degeneration of hepatic and a to mice. sent in normal human tissues (IARC 1985). When hydrogen decomposes into oxygen and water. ⁴ .5 g/L to 0.34+/-0.17 g/L. observed in mice treated orally with hydrogen peroxide. has been observed in mice treated by dermal application. ions in mammalian cells <i>in vitro</i> . Hydrogen peroxide induced he fungi, <i>Neurospora crassa</i> and <i>Aspergillis chevallieri</i> , but an cells <i>in vitro</i> . hents with mice and rats have been negative. as the sole drinking fluid for five weeks produced normal he airspace of groups of 20-30 white leghorn chicken eggs on se-related and detected at doses of 2.8 mol/egg and above.				
-		Carcinogenicity					
Skin Irritation/Corrosion Serious Eye	0	Reproductivity	0				
Damage/Irritation	✓	STOT - Single Exposure	0				
sensitisation		STOT - Repeated Exposure	0				
Mutagenicity	0	Aspiration Hazard	Data available but does not fill the criteria for classification				

Legend:

Data available but does not fill the criteria for a
 Data required to make classification available
 Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source	
hydrogen peroxide	LC50	96	Fish	0.020mg/L	3	
hydrogen peroxide	EC50	3	Algae or other aquatic plants	0.27mg/L	4	
hydrogen peroxide	EC50	48	Crustacea	2.32mg/L	4	
hydrogen peroxide	EC50	72	Algae or other aquatic plants	0.71mg/L	4	
hydrogen peroxide	NOEC	192	Fish	0.028mg/L	4	
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3. 12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data					

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
hydrogen peroxide	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
hydrogen peroxide	LOW (LogKOW = -1.571)

Mobility in soil

Ingredient	Mobility
hydrogen peroxide	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging	Consult State Land Waste Management Authority for disposal.
disposal	Bury residue in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant NO

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC MonographsUS - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air ContaminantsInternational Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Passenger and Cargo AircraftUS - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air ContaminantsUS - Alaska Limits for Air ContaminantsUS - Vermont Permissible exposure limits of air contaminantsUS - Alaska Limits for Air ContaminantsUS - Washington Permissible exposure limits of air contaminantsUS - California Permissible Exposure Limits for Chemical ContaminantsUS - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air ContaminantsUS - Idaho - Limits for Air ContaminantsUS ACGIH Threshold Limit Values (TLV)US - Michigan Exposure Limits for Air ContaminantsUS NIOSH Recommended Exposure Limits (RELs)US - Minnesota Permissible Exposure Limits (PELs)US SARA Section 302 Extremely Hazardous SubstancesUS - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US - Oregon Permissible Exposure Limits (Z-1)US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	HYDROGEN PEROXIDE(7722-84-1) IS FOUND ON THE FOLLOWING REGULATORY LIST	S
International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Contaminants Passenger and Cargo Aircraft US - Alaska Limits for Air Contaminants US - Alaska Limits for Air Contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) US - Idaho - Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs) US - Michigan Exposure Limits for Air Contaminants US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Passenger and Cargo AircraftUS - Washington Permissible exposure limits of air contaminantsUS - Alaska Limits for Air ContaminantsUS - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air ContaminantsUS - California Permissible Exposure Limits for Chemical ContaminantsUS ACGIH Threshold Limit Values (TLV)US - Hawaii Air Contaminant LimitsUS ACGIH Threshold Limit Values (TLV) - CarcinogensUS - Idaho - Limits for Air ContaminantsUS NIOSH Recommended Exposure Limits (RELs)US - Michigan Exposure Limits for Air ContaminantsUS OSHA Permissible Exposure Levels (PELs) - Table Z1US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): MutagensUS Toxic Substances Control Act (TSCA) - Chemical Substance InventoryUS - Oregon Permissible Exposure Limits (Z-1)US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
US - Alaska Limits for Air ContaminantsUS - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air ContaminantsUS - California Permissible Exposure Limits for Chemical ContaminantsUS ACGIH Threshold Limit Values (TLV)US - Hawaii Air Contaminant LimitsUS ACGIH Threshold Limit Values (TLV) - CarcinogensUS - Idaho - Limits for Air ContaminantsUS NIOSH Recommended Exposure Limits (RELs)US - Michigan Exposure Limits for Air ContaminantsUS OSHA Permissible Exposure Levels (PELs) - Table Z1US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): MutagensUS Toxic Substances Control Act (TSCA) - Chemical Substance InventoryUS - Oregon Permissible Exposure Limits (Z-1)US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List	Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Hawaii Air Contaminant Limits US - Idaho - Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Michigan Exposure Limits for Air Contaminants US - Minnesota Permissible Exposure Limits (PELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US - Oregon Permissible Exposure Limits (Z-1)	Passenger and Cargo Aircraft	US - Washington Permissible exposure limits of air contaminants
US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) - Carcinogens US - Idaho - Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs) US - Michigan Exposure Limits for Air Contaminants US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	US - Alaska Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - Idaho - Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs) US - Michigan Exposure Limits for Air Contaminants US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Michigan Exposure Limits for Air Contaminants US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Minnesota Permissible Exposure Limits (PELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Minnesota Permissible Exposure Limits (PELs) US SARA Section 302 Extremely Hazardous Substances US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substance Source Control Act (TSCA) - Chemical Substance Inventory	US - Idaho - Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens US - Oregon Permissible Exposure Limits (Z-1)	US - Michigan Exposure Limits for Air Contaminants	US OSHA Permissible Exposure Levels (PELs) - Table Z1
US - Oregon Permissible Exposure Limits (Z-1)	US - Minnesota Permissible Exposure Limits (PELs)	US SARA Section 302 Extremely Hazardous Substances
	US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory
	US - Oregon Permissible Exposure Limits (Z-1)	
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES		
Immediate (acute) health hazard	YES	
Delayed (chronic) health hazard	NO	
Fire hazard	NO	
Pressure hazard	NO	
Reactivity hazard	NO	

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Y
Canada - NDSL	N (hydrogen peroxide)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Υ
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by SDI Limited using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

- IDLH: Immediately Dangerous to Life or Health Concentrations
- OSF: Odour Safety Factor
- NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index

The information contained in the Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

Other information:

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Phone Number: +61 3 8727 7111

Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director