### **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.

#### 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	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	Association / Organisation Not Available		
Association / Organisation			
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 s	Hazard(s) not otherwise specified		
Not Applicable			

#### Precautionary statement(s) Prevention

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

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

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 equipment and precautions for fire-fighters		
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit poisonous fumes.May emit corrosive fumes.Decomposes on heating and produces; carbon dioxide (CO2) carbon monoxide (CO)</li> </ul>	

### SECTION 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

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

## SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Packaging as recommended by manufacturer.</li> <li>Check that containers are clearly labelled and free from leaks</li> </ul>
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		jen 1.4 1 pj	mg/m3 / om	Not Available	Not Availa	able	Not Available
EMERGENCY LIMITS									
Ingredient	Material name		TEEL-1		TEEL-2			TEEL	-3
hydrogen peroxide	Hydrogen peroxide		Not Available	Not Available		Not Available		vailable	
hydrogen peroxide	Hydrogen peroxic	ogen peroxide - 30% 33 ppm			170 ppm			330 pp	om
Ingredient	Original IDLH			Revised	IDLH				
hydrogen peroxide	75 ppm	om 7			ppm				

## MATERIAL DATA

## Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the haz effective in protecting workers and will typically be independent of worker interactions to provide this hi The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from th "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be req exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequat contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine to effectively remove the contaminant.	gh level of protection. ne worker and ventilation that stra properly. The design of a ventilation uired in specific circumstances. If ate ventilation in warehouse or clo	tegically "adds" and on system must match risk of overexposure used storage areas. Air			
	Type of Contaminant:		Air Speed:			
	solvent, vapours, degreasing etc., evaporating from tank (in still air).		0.25-0.5 m/s (50-100 f/min)			
Appropriate engineering	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers acid fumes, pickling (released at low velocity into zone of active generation)	, welding, spray drift, plating	0.5-1 m/s (100-200 f/min.)			
controls	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas disc zone of rapid air motion)	charge (active generation into	1-2.5 m/s (200-500 f/min.)			
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velo air motion).	ocity into zone of very high rapid	2.5-10 m/s (500-2000 f/min.)			
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	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 extra of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point s distance from the contaminating source. The air velocity at the extraction fan, for example, should be a solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideratio apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when	should be adjusted, accordingly, a minimum of 1-2 m/s (200-400 f/m ns, producing performance deficit	fter reference to hin) for extraction of s within the extraction			
Personal protection						
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59] (ASM/25 1236 or patient equivalent]</li> </ul>					
	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove of	contact lens as soon as practicable	e. Lens should be remove			
Skin protection	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove or at the first signs of eye redness or irritation - lens should be removed in a clean environment only a	contact lens as soon as practicable	e. Lens should be remove			
Skin protection Hands/feet protection	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove or at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]	contact lens as soon as practicable	e. Lens should be remove			
· · ·	<ul> <li>readily available. In the event of chemical exposure, begin eye irrigation immediately and remove of at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> <li>See Hand protection below</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>	contact lens as soon as practicable	e. Lens should be remove			
Hands/feet protection	<ul> <li>readily available. In the event of chemical exposure, begin eye irrigation immediately and remove of at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> <li>See Hand protection below</li> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>Rubber Gloves</li> </ul>	contact lens as soon as practicable	e. Lens should be remove			

#### **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 <b>NOT</b> 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 occupation	nal exposure may produce cumula	ative health effects involving organs or biochemical systems.				
Pola Day 7.5% Hydrogen	ΤΟΧΙΟΙΤΥ	IRRITATION					
Peroxide Gel	Not Available	Not Available					
	ΤΟΧΙΟΙΤΥ	IRRITATION					
	dermal (rat) LD50: 3000-5480 mg/kg <sup>[1]</sup>	Nil reported					
hydrogen peroxide	Inhalation (rat) LC50: 2 mg/L/4H <sup>[2]</sup>						
	Oral (rat) LD50: 75 mg/kg <sup>[1]</sup>						
Legend:	1. Value obtained from Europe ECHA Registered Substances - , extracted from RTECS - Register of Toxic Effect of chemical Su		rom manufacturer's SDS. Unless otherwise specified data				
HYDROGEN PEROXIDE	distribution sites. In rabbits and cats that died after intraveno intraperitoneal injection of hydrogen peroxide in mice, pykno renal tubular epithelial tissue was observed following oral ad Metabolism Glutathione peroxidase, responsible for decom peroxide comes in contact with catalase, an enzyme found in Excretion Hydrogen peroxide has been detected in human the Carcinogenicity Gastric and duodenal lesions including adenomas, carcinomas, a Marked strain differences in the incidence of tumors have been of Genotoxicity Hydrogen peroxide induced DNA damage, sister chromatid exct DNA damage in bacteria ( <i>E. coli</i> ), and was mutagenic to bacter not to <i>Streptomyces griseoflavus</i> . It was not mutagenic to <i>Drosop</i> <b>Developmental Toxicity</b> Malformations have been observed in chicken embryos treated w Female rats that received 0.45% hydrogen peroxide (equivalent to litters when mated with untreated males. Doses of 1.4 to 11 mol/egg hydrogen peroxide (purity 30%) disso day 3 of incubation. Embryos were examined on day 14. The incidence of embryonic of The combined EDS0 was 2.7 mol/egg. <b>Reproductive Toxicity</b> A 1% solution of hydrogen peroxide (equivalent to 1900 mg/kg/d infertility. The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in anin	fter exposure to the material cease ir following exposure to high levels in a non-atopic individual, with abr ifflow pattern, on spirometry, with th hocytic inflammation, without eosin an infrequent disorder with rates r a disorder that occurs as result of a posure ceases. The disorder is ch ons contain an additive stabiliser. ly decomposed by catalase in norn mus, liver, and kidney, suggesting I before absorption. When applied n intact cells and tissues. It is form nitial one-electron step to O2 follow t liver, based on the results of toxic bus administration of hydrogen peroxide, is presended on the results of toxic bus administration of hydrogen peroxide, is presended n blood and most tissues, it rapidly breath at levels ranging from 1.0+, and adenocarcinomas have been baserved. Papilloma development I hanges and chromosomal aberrative ti ( <i>Salmonella typhimurium</i> ) and the phila melanogaster or to mammalie with hydrogen peroxide, but experim to approximately 630 mg/kg/day)7 solved in water were injected into to deaths and malformations was do day) given as the sole drinking fluic mal 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 nophilia, 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 hed by reduction of oxygen either directly in a two-electron wed by dismutation to hydrogen peroxide. city studies, the lungs, intestine, thymus, liver, and kidney may be roxide, the lungs were pale and emphysematous. Following stine and thymus (IARC 1985). Degeneration of hepatic and e to mice. sent in normal human tissues (IARC 1985). When hydrogen decomposes into oxygen and water. /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. tions in mammalian cells <i>in vitro</i> . Hydrogen peroxide induced he fungi, <i>Neurospora crassa</i> and <i>Aspergillis chevallieri</i> , but ian cells <i>in vitro</i> . nents 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.				
Acute Toxicity	0	Carcinogenicity	0				
Skin Irritation/Corrosion	0	Reproductivity	0				
Serious Eye Damage/Irritation	*	STOT - Single Exposure	0				
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0				
Mutagenicity	0	Aspiration Hazard	0				

Legend:

Data available but does not fill the criteria for classification
 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:	Aquatic Toxicity Data (Es	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

HYDROGEN PEROXIDE(7722-84-1) IS FOUND ON THE FOLLOWING REGULATORY LIST	S	
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	
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air	
International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List	Contaminants	
Passenger and Cargo Aircraft	US - Washington Permissible exposure limits of 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 ACGIH Threshold Limit Values (TLV)	
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 - 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

#### 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	Y
Canada - DSL	Y
Canada - NDSL	N (hydrogen peroxide)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
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:

Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia

Phone Number: +61 3 8727 7111

Date of preparation/revision: 23rd September 2015

Department issuing SDS: Research and Development

Contact: Technical Director