

SDI Limited

Version No: 5.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: 28/01/2016 Print Date: 08/04/2016 Initial Date: Not Available L.REACH.IRL.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1.Product Identifier

Product name	Pola Day 7.5% Hydrogen Peroxide Gel
Synonyms	Not Available
Other means of identification	Not Available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Dental use: To remove discoloration of teeth under the supervision of a dentist.
Uses advised against	Not Applicable

1.3. Details of the supplier of the safety data sheet

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		

1.4. Emergency telephone 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 HAZARDS IDENTIFICATION

2.1.Classification of the substance or mixture

Considered a dangerous mixture according to directive 1999/45/EC, Reg. (EC) No 1272/2008 (if applicable) and their amendments. Not classified as Dangerous Goods for transport purposes.

DSD classification	In case of mixtures, classification has been prepared by following DPD (Directive 1999/45/EC) and CLP Regulation (EC) No 1272/2008 regulations
DPD classification ^[1]	R36 Irritating to eyes.
Legend:	1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Classification according to regulation (EC) No 1272/2008 [CLP] ^[1]	Eye Irritation Category 2
Legend:	1. Classification by vendor; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
2.2. Label elements	
CLP label elements	
SIGNAL WORD	WARNING
Hazard statement(s)	
H319	Causes serious eye irritation.
Supplementary statement(s	5)
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.

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

Cumulative effects may result following exposure*.

May produce skin discomfort*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to directive 67/548/EEC [DSD]	Classification according to regulation (EC) No 1272/2008 [CLP]
1.7722-84-1 2.231-765-0 3.008-003-00-9 4.01-2119485845-22-XXXX	7.5	<u>hydrogen</u> peroxide	R5, R8, R20/22, R35 ^[2]	Oxidizing Liquid Category 1, Acute Toxicity (Inhalation) Category 4, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1A; H271, H332, H302, H314 [3]
Legend:		ion by vendor; 2. (ion drawn from C&		7/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

	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.
	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.
General	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
	If fumes, aerosols or combustion products are inhaled remove from contaminated area.
	Other measures are usually unnecessary.
	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 casualty can comfortably drink.

	► Seek medical advice.
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 casualty can comfortably drink. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

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

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

Advice for firefighters	
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

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

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

7.1. 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 containers. 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. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Fire and explosion protection	See section 5
Other information	Do not store in direct sunlight. Store between 5 and 25 deg. C.

7.2. 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.

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Ireland Occupational Exposure Limits	hydrogen peroxide	Hydrogen peroxide	1.5 mg/m3 / 1 ppm	3 mg/m3 / 2 ppm	Not Available	Not Available

EMERGENCY LIMITS

1					
Ingredient	Material name	TEEL-1		TEEL-2	TEEL-3
hydrogen peroxide	Hydrogen peroxide	Not Available		Not Available	Not Available
hydrogen peroxide	Hydrogen peroxide - 30%	33 ppm		170 ppm	330 ppm
Ingredient	Original IDLH		Revised I	Revised IDLH	
hydrogen peroxide	75 ppm		75 [Unch]	ppm	

MATERIAL DATA

8.2. Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. 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 solated barard "obvisit", way from the worker and work	on.		
	Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employees may need to use multiple types of controls to prevent employee overexposure.			
8.2.1. Appropriate engineering controls	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific cir exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in wa contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture vel to effectively remove the contaminant.	arehouse or closed 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)		

	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.)	
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)			
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velociar motion).	city 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 si 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 consideration apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when e	hould be adjusted, accordingly, a minimum of 1-2 m/s (200-400 f/m ns, producing performance deficit	fter reference to in) for extraction of s within the extraction	
8.2.2. Personal protection				
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritar lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be trreadily 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 	review of lens absorption and ad ained in their removal and suitabl contact lens as soon as practicable	sorption for the class of le equipment should be e. Lens should be remo	
	Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]		thoroughly. [CDC NIOS	
Skin protection	Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below		thoroughly. [CDC NIO:	
Skin protection Hands/feet protection			thoroughly. [CDC NIO:	
	See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber		thoroughly. [CDC NIO:	
Hands/feet protection	See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Rubber Gloves		thoroughly. [CDC NIO	

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)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. 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

9.2. Other information

Not Available

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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Inhaled		or irritation of the respiratory tract (as classified by EC Directives using animal models). e 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 morbidity 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 t Entry into the blood-stream through, for example, cuts, abrasic skin prior to the use of the material and ensure that any extern	ons, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the			
Skin Contact	Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individual following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflamma 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; 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 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 occupat	ional exposure may produce cumulative health effects involving organs or biochemical systems.			
Pola Day 7.5% Hydrogen	τοχιςιτγ	IRRITATION			
Peroxide Gel	Not Available	Not Available			
	тохісіту	IRRITATION			
	dermal (rat) LD50: 3000-5480 mg/kg ^[1]	Nil reported			
hydrogen peroxide	Inhalation (rat) LC50: 2 mg/L/4H ^[2]				
	Oral (rat) LD50: 75 mg/kg ^[1]				
Legend:	Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical S	s - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data Substances			
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		cur following exposure to high levels n a non-atopic individual, with abrup flow pattern, on spirometry, with the pocytic inflammation, without eosinop an infrequent disorder with rates relat a disorder that occurs as result of exposure ceases. The disorder is ch ations contain an additive stabiliser. dily decomposed by catalase in norr ymus, liver, and kidney, suggesting vel before absorption. When applied	s of highly irritating compound. Key criteria for the diagnosis of t onset of persistent asthma-like symptoms within minutes to presence of moderate to severe bronchial hyperreactivity on hilia, have also been included in the criteria for diagnosis of ated 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 penetrabili
	distribution sites. In rabbits and cats that died after intravel	initial one-electron step to O2 follow act liver. based on the results of toxic nous administration of hydrogen per notic nuclei were induced in the inte administration of hydrogen peroxide	ved by dismutation to hydrogen peroxide. sity studies, the lungs, intestine, thymus, liver, and kidney may broxide, the lungs were pale and emphysematous. Following stine and thymus (IARC 1985). Degeneration of hepatic and e to mice.
	peroxide comes in contact with catalase, an enzyme found Excretion Hydrogen peroxide has been detected in huma Carcinogenicity Gastric and duodenal lesions including adenomas, carcinomas Marked strain differences in the incidence of tumors have been Genotoxicity	n breath at levels ranging from 1.0+, s, and adenocarcinomas have been observed. Papilloma development l	/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.
	Hydrogen peroxide induced DNA damage, sister chromatid ex DNA damage in bacteria (<i>E. coli</i>), and was mutagenic to bact not to <i>Streptomyces griseoflavus</i> . It was not mutagenic to <i>Dros</i> Developmental Toxicity Malformations have been observed in chicken embryos treated	teria (<i>Salmonella typhimurium</i>) and th sophila melanogaster or to mammali	ne fungi, Neurospora crassa and Aspergillis chevallieri, but ian cells in vitro.
	Female rats that received 0.45% hydrogen peroxide (equivaler litters when mated with untreated males. Doses of 1.4 to 11 mol/egg hydrogen peroxide (purity 30%) dis day 3 of incubation. Embryos were examined on day 14. The incidence of embryon The combined ED50 was 2.7 mol/egg.	nt to approximately 630 mg/kg/day)7 ssolved in water were injected into t	as the sole drinking fluid for five weeks produced normal he airspace of groups of 20-30 white leghorn chicken eggs on
	Reproductive Toxicity A 1% solution of hydrogen peroxide (equivalent to 1900 mg/kg infertility. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in an		to three-month-old male mice for 7-28 days did not cause
Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	\odot	Reproductivity	0
Serious Eye Damage/Irritation	*	STOT - Single Exposure	0

Damage/Irritation	
Respiratory or Ski sensitisation	
Mutagenicit	у

Aspiration Hazard

STOT - Repeated Exposure

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

S – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

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12.1. Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source		
hydrogen peroxide	LC50	96	Fish	0.020mg/L	3		
hydrogen peroxide	EC50	3	0.27mg/L	4			
hydrogen peroxide	EC50	48 Crustacea 2		2.32mg/L	4		
hydrogen peroxide	EC50	72	2 Algae or other aquatic plants 0.71mg/L		4		
hydrogen peroxide	NOEC	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.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
hydrogen peroxide	LOW (LogKOW = -1.571)

12.4. Mobility in soil

,	
Ingredient	Mobility
hydrogen peroxide	LOW (KOC = 14.3)

12.5.Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product / Packaging disposal	Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required Marine Pollutant NO Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS 14.1.UN number Not Applicable 14.2.Packing group Not Applicable 14.3.UN proper shipping Not Applicable name 14.4.Environmental hazard Not Applicable Not Applicable Class 14.5. Transport hazard

	class(es)	Subrisk Not Applicable	
		Hazard identification (Kemler)	Not Applicable Not Applicable
14.6. Special precautions for user	Hazard Label	Not Applicable	
		Special provisions	Not Applicable
		Limited quantity	Not Applicable

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

14.1. UN number	Not Applicable				
14.2. Packing group	Not Applicable				
14.3. UN proper shipping name	Not Applicable				
14.4. Environmental hazard	Not Applicable				
	ICAO/IATA Class	Not Applicable			
14.5. Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable			
0.200(00)	ERG Code	Not Applicable			
	Special provisions		Not Applicable		
14.6. Special precautions for user	Cargo Only Packing Instructions		Not Applicable		
	Cargo Only Maximum Qty / Pack		Not Applicable		
	Passenger and Cargo Packing Instructions		Not Applicable		
	Passenger and Cargo Maximum Qty / Pack		Not Applicable		
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable		
	Passenger and Cargo Limited Maximum Qty / Pack		Not Applicable		

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

14.1. UN number	Not Applicable
14.2. Packing group	Not Applicable
14.3. UN proper shipping name	Not Applicable
14.4. Environmental hazard	Not Applicable
14.5. Transport hazard class(es)	IMDG Class Not Applicable IMDG Subrisk Not Applicable
14.6. Special precautions for user	EMS NumberNot ApplicableSpecial provisionsNot ApplicableLimited QuantitiesNot Applicable

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. Packing group	Not Applicable
14.3. UN proper shipping name	Not Applicable
14.4. Environmental hazard	Not Applicable
14.5. Transport hazard class(es)	Not Applicable Not Applicable
14.6. Special precautions for user	Classification codeNot ApplicableSpecial provisionsNot ApplicableLimited quantityNot ApplicableEquipment requiredNot ApplicableFire cones numberNot Applicable

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

Not Applicable

SECTION 15 REGULATORY INFORMATION

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

HYDROGEN PEROXIDE(7722-84-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI
European Customs Inventory of Chemical Substances ECICS (English)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)	Monographs
(English)	International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List
European Union (EU) Annex I to Directive 67/548/EEC on Classification and Labelling of	Passenger and Cargo Aircraft
Dangerous Substances - updated by ATP: 31	Ireland Occupational Exposure Limits

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier		
hydrogen peroxide 7722-84-1		008-003-00-9	01-2119485845-22-XXXX		
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Wo Code(s)	rd Hazard Statement Code(s)	
1	Ox. Liq. 1, Acute Tox. 4, Skin Corr. 1A		GHS07, GHS05, GHS03 Dgr	' H271, H302, H314, H332	
2	Ox. Liq. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3, Ox. Liq. 2, Acute Tox. 3, Flam. Liq. 2, Skin Corr. 1B, Acute Tox. 2, Met. Corr. 1, Aquatic Chronic 2, Not Classified, Skin Irrit. 2, Eye Irrit. 2			H271, H314, H335, H318, 'H225, H301, H330, H290	

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (hydrogen peroxide)

China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Υ
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

Full text Risk and Hazard codes

Highly flammable liquid and vapour.Highly flammable liquid and vapour.Hamful if swallowed.Causes serious eye damage.Hamful if inhaled.Hamful if inhaled.Hamful if inhaled.Hamful by inhalation and if swallowed.Hamful by inhalation and if swallowed.Causes severe bums.Hamful by inhalation and if swallowed.Hamful by inhalation and if swallowed.Hamful by inhalation and if swallowed.RatesHamful by inhalation and if swallowed.RatesHamful by inhalation and if swallowed.RatesHeating may cause an explosion.RatesRatesContact with combustible material may cause fire.			
H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. Causes severe skin burns and eye damage. H314 Causes serious eye damage. H330 Fatal if inhaled. H332 Harmful if inhaled. H333 May cause respiratory irritation. R20/22 Harmful by inhalation and if swallowed. Causes severe burns. Causes severe burns. R5 Heating may cause an explosion.	H225	Highly flammable liquid and vapour.	
H301Toxic if swallowed.H302Harmful if swallowed.H314Causes severe skin burns and eye damage.H314Causes serious eye damage.H318Causes serious eye damage.H330Fatal if inhaled.H332Harmful if inhaled.H335May cause respiratory irritation.R20/22Harmful by inhalation and if swallowed.R35Causes severe burns.Heating may cause an explosion.	H271	May cause fire or explosion; strong oxidiser.	
H302Harmful if swallowed.H314Causes severe skin burns and eye damage.H318Causes serious eye damage.H330Fatal if inhaled.H332Harmful if inhaled.H335May cause respiratory irritation.R20/22Harmful by inhalation and if swallowed.Causes severe burns.Causes severe burns.R5Heating may cause an explosion.	H290	May be corrosive to metals.	
H314Causes severe skin burns and eye damage.H316Causes serious eye damage.H317Fatal if inhaled.H330Fatal if inhaled.H331Harmful if inhaled.H335May cause respiratory irritation.R20/22Harmful by inhalation and if swallowed.R335Causes severe burns.Heating may cause an explosion.	H301	Toxic if swallowed.	
H318 Causes serious eye damage. H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. R20/22 Harmful by inhalation and if swallowed. Causes severe burns. Causes severe burns. Heating may cause an explosion. Heating may cause an explosion.	H302	Harmful if swallowed.	
H330 Fatal if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. R20/22 Harmful by inhalation and if swallowed. Causes severe burns. Causes severe burns. Heating may cause an explosion.	H314	Causes severe skin burns and eye damage.	
H332 Harmful if inhaled. H335 May cause respiratory irritation. R2022 Harmful by inhalation and if swallowed. R35 Causes severe burns. Heating may cause an explosion. Heating may cause an explosion.	H318	Causes serious eye damage.	
H335 May cause respiratory irritation. R20/22 Harmful by inhalation and if swallowed. R35 Causes severe burns. R4 Heating may cause an explosion.	H330	Fatal if inhaled.	
R20/22 Harmful by inhalation and if swallowed. R35 Causes severe burns. R5 Heating may cause an explosion.	H332	Harmful if inhaled.	
R35 Causes severe burns. R5 Heating may cause an explosion.	H335	May cause respiratory irritation.	
R35 Causes severe burns. R5 Heating may cause an explosion.			
R5 Heating may cause an explosion.	R20/22	Harmful by inhalation and if swallowed.	
	R35	Causes severe burns.	
R8 Contact with combustible material may cause fire.	R5	Heating may cause an explosion.	
	R8	Contact with combustible material may cause fire.	

Other information

DSD / DPD label elements



Relevant risk statements are found in section 2.1

Indication(s) of danger	Хі	
SAFETY ADVICE		
S02	Keep out of reach of children.	
\$23	Do not breathe gas/fumes/vapour/spray.	
S26	In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.	
S35	This material and its container must be disposed of in a safe way.	
S39	Wear eye/face protection.	
S40	To clean the floor and all objects contaminated by this material, use water.	
S46	If swallowed, seek medical advice immediately and show this container or label.	
S56	Dispose of this material and its container at hazardous or special waste collection point.	
S64	If swallowed, rinse mouth with water (only if the person is conscious).	

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.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

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: 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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