

SDI Limited Version No: 7.1

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Issue Date: 23/12/2022 Print Date: 21/11/2023 L.REACH.GB.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier	
Product name	Pola Day 9.5% Hydrogen Peroxide Gel
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)
Chemical formula	Not Applicable
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	No specific uses advised against are identified.	

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	SDI Limited	SDI (North America) Inc.	SDI HOLDINGS PTY LTD DO
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia	1279 Hamilton Parkway Itasca IL 60143 United States	Rua Dr. Reinaldo Schmithausen 3141 – Cordeiros Itajaí – SC – CEP 88310-004 Brazil
Telephone	+61 3 8727 7111	+1 630 361 9200	+55 11 3092 7100
Fax	+61 3 8727 7222	61 3 8727 7222 Not Available Not Available	
Website	www.sdi.com.au	www.sdi.com.au	http://www.sdi.com.au/
Email	info@sdi.com.au	USA.Canada@sdi.com.au	Brasil@sdi.com.au
Registered company name	SDI Germany GmbH		
Address	Hansestrasse 85 Cologne D-51149 Germany		
Telephone	+49 0 2203 9255 0		
Fax	+49 0 2203 9255 200		
Website	www.sdi.com.au		
Email	germany@sdi.com.au		

1.4. Emergency telephone number

Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126 Poisons Information Centre	+44 20 3901 3542
Other emergency telephone numbers	+61 3 8727 7111	+44 808 164 9592

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H318 - Serious Eye Damage/Eye Irritation Category 1
Legend:	1. Classification by vendor; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

2.2. Label elements

Hazard pictogram(s)	
Signal word	Danger
Hazard statement(s)	
H318	Causes serious eye damage.
Supplementary statement(s) Not Applicable Precautionary statement(s) Pre	evention
P280	Wear protective gloves, protective clothing, eye protection and face protection.
Precautionary statement(s) Re	sponse
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
Precautionary statement(s) Sto Not Applicable	
Precautionary statement(s) Dis Not Applicable	sposal
2.3. Other hazards Cumulative effects may result follow May produce skin discomfort*.	ving exposure*.

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	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1. 7722-84-1 2.231-765-0 3.008-003-00-9 4.01-2119485845-22- XXXX 01-2120763149-48-XXXX	9.5	hydrogen peroxide	Oxidizing Liquids Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 1A, Acute Toxicity (Inhalation) Category 4; H271, H302, H314, H332 ^[2]	Ox. Liq. 1; H271: C ≥ 70 %**** Ox. Liq. 2; H272: 50 % ≤ C < 70 % **** * Skin Corr. 1A;	Not Available
Legend:	 Classification by vendor; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties 				

SECTION 4 First aid measures

4.1. 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 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 44rnk1

5.3. 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 fumes. May emit corrosive fumes. 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.

6.4. Reference to other sections

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

SECTION 7 Handling and storage

7.1. Precautions for safe handling

T.I. I I Coudions for sale fland	
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.

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	 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 2 and 25 deg C.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	 Avoid storage with reducing agents. 4base
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
hydrogen peroxide	Inhalation 0.04 mg/m³ (Local, Chronic) Inhalation 3 mg/m³ (Local, Acute) Inhalation 0.21 mg/m³ (Local, Chronic) * Inhalation 1.93 mg/m³ (Local, Acute) *	0.013 mg/L (Water (Fresh)) 0.014 mg/L (Water - Intermittent release) 0.013 mg/L (Water (Marine)) 0.047 mg/kg sediment dw (Sediment (Fresh Water)) 0.047 mg/kg sediment dw (Sediment (Marine)) 0.002 mg/kg soil dw (Soil) 4.66 mg/L (STP)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL		Peak	Notes
UK Workplace Exposure Limits (WELs).	hydrogen peroxide	Hydrogen peroxide	1 ppm / 1.4 mg/m3	3 2.8 mg/m3 / 2 p	pm	Not Available	Not Available
Emergency Limits							
Ingredient	TEEL-1		TEEL-2		TEEL	-3	
hydrogen peroxide	Not Available		Not Available		Not A	vailable	
Ingredient	Original IDLH			Revised IDLH			
-	5			Not Available			
hydrogen peroxide	75 ppm			NUL AVAIIADIE			

MATERIAL DATA

8.2. Exposure controls

 8.2.1. Appropriate engineering controls Beneficient engineering controls 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 the wo "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if desiventiation system must match 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 required overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant: 	igned properly. The design of a in specific circumstances. If risk of a adequate ventilation in warehouse
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	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts, gas discharge (active	1-2.5 m/s (200-500 f/min.)			
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	nerated dusts (released at high initial velocity into zone of	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				
	accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min) for extraction of solvents generated in	he square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be a dingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should (s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanica cing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by fa when extraction systems are installed or used.				
8.2.2. Individual protection measures, such as personal protective equipment						
Eye and face protection	the wearing of lenses or restrictions on use, should be co and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens should	equivalent] lenses may absorb and concentrate irritants. A written policy reated for each workplace or task. This should include a revi account of injury experience. Medical and first-aid personnel available. In the event of chemical exposure, begin eye irriga b be removed at the first signs of eye redness or irritation - le nds thoroughly. [CDC NIOSH Current Intelligence Bulletin 55	ew of lens absorption should be trained in tion immediately and ens should be removed in			
Skin protection	See Hand protection below					
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber Rubber Gloves 					
Body protection	See Other protection below					
Other protection	 Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. 					

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.	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 (°C)	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	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	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

Inhaled	The material is not thought to produce respiratory irritation (as class material, especially for prolonged periods, may produce respiratory	ssified by EC Directives using animal models). Nevertheless inhalation, of the y discomfort and occasionally, distress.		
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.			
Skin Contact	individuals following direct contact, and/or produces significant infl hours, such inflammation being present twenty-four hours or more prolonged or repeated exposure; this may result in a form of conta redness (erythema) and swelling (oedema) which may progress to microscopic level there may be intercellular oedema of the spongy Open cuts, abraded or irritated skin should not be exposed to this	puncture wounds or lesions, may produce systemic injury with harmful effects		
Eye	When applied to the eye(s) of animals, the material produces seve	When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.		
Chronic	Limited evidence suggests that repeated or long-term occupationa biochemical systems.	I exposure may produce cumulative health effects involving organs or		
Pola Day 9.5% Hydrogen	ΤΟΧΙΟΙΤΥ	IRRITATION		
Peroxide Gel	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available		
hydrogen peroxide	Inhalation(Mouse) LC50; 2800 mg/L4h ^[2]			
	Oral (Rat) LD50: >225 mg/kg ^[2]			
Legend:	 Value obtained from Europe ECHA Registered Substances - Ac specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - Register of Toxic Effect of the specified data extracted from RTECS - REGISTER e	cute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise chemical Substances		

No significant acute toxicological data identified in literature search.

HYDROGEN PEROXIDE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a

	 result of exposure due to high concentrations of irritating disorder is characterized by difficulty breathing, cough a For hydrogen peroxide: Hazard increases with peroxide concentration, high con Pharmacokinetics Hydrogen peroxide, is a normal product of metabolism. I hydrogen peroxide, target organs affected include the lu Hydrogen peroxide has been detected in breath. Absorption: Hydrogen peroxide is decomposed in th poor penetrability. Distribution Hydrogen peroxide is produced metabol two-electron transfer reaction, often catalysed by flat peroxide. Hydrogen peroxide has been detected in serum and and kidney may be distribution sites. In rabbits and and emphysematous. Following intraperitoneal inject thymus (IARC 1985). Degeneration of hepatic and r peroxide to mice. Metabolism Glutathione peroxide has been detected in Carcinogenicity Gastric and duodenal lesions including adenomas, carci peroxide. Marked strain differences in the incidence of the by dermal application. Genotoxicity Malformations have been observed in chicken embryos Female rats that received 0.45% hydrogen peroxide (our provide to mice 0.14 to 11 mol/egg hydrogen peroxide (our provide 1.14 mol/egg hydrogen peroxide (our provide) for the provide 1.14 mol/egg hydrogen peroxide (our provide) fox peroxide (purity 3.04 mol/egg and above. The combined ED50	Ind mucus production. centrations contain an additive stability t is readily decomposed by catalase in ings, intestine, thymus, liver, and kidn he bowel before absorption. When applically in intact cells and tissues. It is for avoproteins, or by an initial one-electron d in intact liver. based on the results on cats that died after intravenous admir ption of hydrogen peroxide in mice, py renal tubular epithelial tissue was obser- d ecomposing hydrogen peroxide, is alase, an enzyme found in blood and human breath at levels ranging from inomas, and adenocarcinomas have I umors have been observed. Papillom atid exchanges and chromosomal about twas mutagenic to bacteria (<i>Salmone polfavus</i> . It was not mutagenic to <i>Dros</i> treated with hydrogen peroxide, but ef uivalent to approximately 630 mg/kg/ as. 2%) dissolved in water were injected i mbryonic deaths and malformations w gg.	Ser. In normal cells. In experimental animals exposed to ey, suggesting its distribution to those sites. blied to tissue, solutions of hydrogen peroxide have formed by reduction of oxygen either directly in a on step to O2 followed by dismutation to hydrogen f toxicity studies, the lungs, intestine, thymus, liver, histration of hydrogen peroxide, the lungs were pale erved following oral administration of hydrogen present in normal human tissues (IARC 1985). most tissues, it rapidly decomposes into oxygen and 1.0+/5 g/L to 0.34+/-0.17 g/L. been observed in mice treated orally with hydrogen a development has been observed in mice treated errations in mammalian cells <i>in vitro</i> . Hydrogen <i>ella typhimurium</i>) and the fungi, <i>Neurospora crassa</i> sophila melanogaster or to mammalian cells <i>in vitro</i> . experiments with mice and rats have been negative. day)7 as the sole drinking fluid for five weeks into the airspace of groups of 20-30 white leghorn was dose-related and detected at doses of 2.8
	did not cause 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 limite	d in animal testing.	
		······································	
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin	×	STOT - Repeated Exposure	×

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Mutagenicity

No evidence of endocrine disrupting properties were found in the current literature.

×

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

Pola Day 9.5% Hydrogen Peroxide Gel	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.69mg/l	4
	EC50	48h	Crustacea	2mg/l	2
hydrogen peroxide	EC50	96h	Algae or other aquatic plants	2.27mg/l	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.1mg/l	1
	LC50	96h	Fish	16.4mg/l	2
Legend:			stered Substances - Ecotoxicological Information		
		se - Aquatic Toxicity Data 5. ECETOC Aquatic F ion Data 8. Vendor Data	lazard Assessment Data 6. NITE (Japan) - Bioc	concentration Data 7. N	и∈тт (Јара

Aspiration Hazard

Legend:

×

Data available to make classification

🗙 – Data either not available or does not fill the criteria for classification

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	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			Νο
vPvB			No

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

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

	51
Marine Pollutant	NO
HAZCHEM	2R

Land transport (ADR-RID)

14.1. UN number or ID number	2984	
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	
14.3. Transport hazard class(es)	Class 5.1 Subsidiary Hazard Not Appl	icable
14.4. Packing group		
14.5. Environmental hazard	Not Applicable	
	Hazard identification (Kemler)	50
14.6. Special precautions for user	Classification code	01
	Hazard Label	5.1
	Special provisions	65
	Limited quantity	5 L
	Tunnel Restriction Code	E

Air transport (ICAO-IATA / DGR)

14.1. UN number	2984	2984		
14.2. UN proper shipping name	Hydrogen peroxide, aqueous soluti	Hydrogen peroxide, aqueous solution with 8% or more but less than 20% hydrogen peroxide (stabilized as necessary)		
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	5.1 Not Applicable 5L		
14.4. Packing group	ш			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A803 555 30 L 551 2.5 L Y541 1 L	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2984	2984	
14.2. UN proper shipping name	HYDROGEN PEROXIDE	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)	
14.3. Transport hazard	IMDG Class	5.1	
class(es)	IMDG Subsidiary Haza	ard Not Applicable	
14.4. Packing group	ш	III	
14.5 Environmental hazard	Not Applicable		
	EMS Number	F-H, S-Q	
14.6. Special precautions for user	Special provisions	65	
	Limited Quantities	5 L	

Inland waterways transport (ADN)

14.1. UN number	2984	
14.2. UN proper shipping name	HYDROGEN PEROXIDE	E, AQUEOUS SOLUTION with not less than 8% but less than 20% hydrogen peroxide (stabilized as necessary)
14.3. Transport hazard class(es)	5.1 Not Applicable	
14.4. Packing group	ш	
14.5. Environmental hazard	Not Applicable	
	Classification code	01
	Special provisions	65
14.6. Special precautions for user	Limited quantity	5 L
	Equipment required	PP
	Fire cones number	0

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

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
hydrogen peroxide	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
hydrogen peroxide	Not Available

If packed as Chemical kits the following classification may be considered if all ICAO/IATA transport requirements are met: Chemical Kit UN3316 - Class 9, SP A44 & A163.

SECTION 15 Regulatory information

hydrogen peroxide is found on the following regulatory lists

Great Britain GB Biocidal Active Substances

Great Britain GB mandatory classification and labelling list (GB MCL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic UK Workplace Exposure Limits (WELs).

Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

National Inventory Status

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (hydrogen peroxide)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - FBEPH	Yes		
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.		

SECTION 16 Other information

Revision Date	23/12/2022
Initial Date	09/11/2015

Full text Risk and Hazard codes

H271	May cause fire or explosion; strong oxidiser.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H332	Harmful if inhaled.	

SDS Version Summary

Version	Date of Update	Sections Updated
6.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
7.1	23/12/2022	Classification review due to GHS Revision change.

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.

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 ۶ ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ٠ TEEL: Temporary Emergency Exposure Limit.
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ۶ ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- ٠ TLV: Threshold Limit Value
- ٠ LOD: Limit Of Detection
- OTV: Odour Threshold Value ٠
- ۲ BCF: BioConcentration Factors
- ۶ BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level ٠
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- ۲ DSL: Domestic Substances List
- ٠ NDSL: Non-Domestic Substances List
- ٠ IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances ۲
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- ۲ TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ۲ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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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