

### SDI Limited

Version No: 5.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: 18/03/2016 Print Date: 24/03/2016 Initial Date: Not Available L.REACH.GBR.EN

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

#### 1.1.Product Identifier

Product name	Pola Office + 6% 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	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	ed 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
Association/ Organisation	SDI LIMileu	NOLAVAIIADIE	NOL AVAIIADIE
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 <sup>[1]</sup>	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] <sup>[1]</sup>	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	3)	
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.	

#### App

### 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	6	<u>hydrogen</u> peroxide	R5, R8, R20/22, R35 <sup>[2]</sup>	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:	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 4. Classification drawn from C&L			

### SECTION 4 FIRST AID MEASURES

#### 4.1. Description of first aid measures

General	<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> <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> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If swallowed 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 casualty can comfortably drink.</li> </ul>
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Continued...

### Pola Office + 6% Hydrogen Peroxide Gel

	► Seek medical advice.
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	If skin contact occurs: <ul> <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 casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

#### 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

Hydrogen peroxide at moderate concentrations (5% or more) is a strong oxidant.

Direct contact with the eye is likely to cause corneal damage especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered.

• Because of the likelihood of systemic effects attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided.

• There is remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation" Fisher Scientific SDS

#### **SECTION 5 FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

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

#### 5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.		
5.3. Advice for firefighters			
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 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

#### 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	<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> </ul>

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

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>DO NOT repack. Use containers supplied by manufacturer only.</li> <li>Check that containers are clearly labelled and free from leaks</li> </ul>
Storage incompatibility	<ul> <li>Avoid strong bases.</li> </ul>

#### 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
UK Workplace Exposure Limits (WELs)	hydrogen peroxide	Hydrogen peroxide	1.4 mg/m3 / 1 ppm	2.8 mg/m3 / 2 ppm	Not Available	Not Available

#### EMERGENCY LIMITS

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	DLH	
hydrogen peroxide	75 ppm		eroxide 75 ppm 75 [Unch] ppm		

#### MATERIAL DATA

### 8.2. Exposure controls

8.2. Exposure controls	
8.2.1. Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly 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 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. Employers may need to use multiple types of controls to prevent employee overexposure.

	Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Of Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensight An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the turm, determine the "capture velocities" of fresh circulating air required to effectively remove the context	sure adequate protection. e workplace possess varying "esca	
	Type of Contaminant:         Air Speed:           solvent, vapours, degreasing etc., evaporating from tank (in still air).         0.25-0.5 m/s (50-1 f/min.)           aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)         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 f/min.)         1-2.5 m/s (200-500 f/min.)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial ve air motion).	elocity 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	
	of distance from the extraction point (in simple cases). Therefore the air speed at the extraction poin distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideral	nt should be adjusted, accordingly, a e a minimum of 1-2 m/s (200-400 f/m	nin) for extraction of
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	<ul> <li>of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). The extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). The extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). The extraction point (in simple cases). The extraction point (in the extraction point (in simple cases).</li> <li>Image: the extraction point (in simple cases). The extraction point (in simple cases). The extraction point (in simple cases).</li> <li>Image: the extraction point (in simple cases). The extraction point (in simple cases). The extraction point (in simple cases). The extraction point (in simple cases).</li> <li>Image: the extraction point (in simple cases). The extraction point (in simple cases). The extraction point (in simple cases). The extraction (in simple cases). The extraction (in the extraction case and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of e</li></ul>	It should be adjusted, accordingly, a a minimum of 1-2 m/s (200-400 f/m tions, producing performance deficit en extraction systems are installed of itants. A written policy document, de a review of lens absorption and ad trained in their removal and suitab e contact lens as soon as practicabl	Ifter reference to hin) for extraction of is within the extraction r used. escribing the wearing of isorption for the class of le equipment should be le. Lens should be removed
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Eye and face protection Skin protection	<ul> <li>of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). Therefore the air speed at the extraction point (in simple cases). The air velocities are multiplied by factors of 10 or more whe</li> <li>Image: the extraction point (in simple cases). The extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <li>Image: Safety glasses with side shields.</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irri lenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove at the first signs of eye redness or irritation - lens should be removed in a clean environment on Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]</li> <li>See Hand p</li></ul>	It should be adjusted, accordingly, a a minimum of 1-2 m/s (200-400 <i>t/m</i> tions, producing performance deficit en extraction systems are installed of itants. A written policy document, de a review of lens absorption and ad trained in their removal and suitab e contact lens as soon as practicabl	Ifter reference to nin) for extraction of is within the extraction r used. escribing the wearing of Isorption for the class of le equipment should be reference.
Eye and face protection Skin protection Hands/feet protection	<ul> <li>of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point distance from the contaminating source. The air velocity at the extraction fan, for example, should be solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideral apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more whe</li> <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 irri lenses or restrictions on use, should be created for each workplace or task. This should include chemicals in use and an account of injury experience. Medical and first-aid personnel should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remova at the first signs of eye redness or irritation - lens should be removed in a clean environment on 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>	It should be adjusted, accordingly, a a minimum of 1-2 m/s (200-400 <i>t/m</i> tions, producing performance deficit en extraction systems are installed of itants. A written policy document, de a review of lens absorption and ad trained in their removal and suitab e contact lens as soon as practicabl	Ifter reference to nin) for extraction of is within the extraction r used. escribing the wearing of Isorption for the class of le equipment should be reference.

#### **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

Appearance	Clear blue gel with no odour, mixes with water.				
Physical state	Gel	Relative density (Water = 1)	Not Available		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	Not Available	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Applicable	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

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).			
Ingestion	Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. 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.			
Skin Contact	following direct contact, and/or produces significant inflamma being present twenty-four hours or more after the end of the result in a form of contact dermatitis (nonallergic). The derm progress to blistering (vesiculation), scaling and thickening of the skin (spongiosis) and intracellular oedema of the epider Open cuts, abraded or irritated skin should not be exposed to	o this material ions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the		
Eye	Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.			
Chronic	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.			
Pola Office + 6% Hydrogen Peroxide Gel	TOXICITY Not Available	IRRITATION Not Available		
hydrogen peroxide	TOXICITY dermal (rat) LD50: 3000-5480 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: 2 mg/L/4H <sup>[2]</sup>	IRRITATION Nil reported		

	Oral (rat) LD50: 75 mg/kg <sup>[1]</sup>		
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substar extracted from RTECS - Register of Toxic Effect of chemi</li> </ol>		from manufacturer's SDS. Unless otherwise specified data
HYDROGEN PEROXIDE	<ul> <li>extracted from RTECS - Register of Toxic Effect of chemic</li> <li>No significant acute toxicological data identified in literatu</li> <li>Asthma-like symptoms may continue for months or even yer</li> <li>reactive airways dysfunction syndrome (RADS) which car</li> <li>of RADS include the absence of preceding respiratory dist</li> <li>to hours of a documented exposure to the irritant. A revers</li> <li>on methacholine challenge testing and the lack of minimal</li> <li>of RADS. RADS (or asthma) following an irritating inhalati</li> <li>irritating substance. Industrial bronchitis, on the other ham</li> <li>(often particulate in nature) and is completely reversible af</li> <li>For hydrogen peroxide:</li> <li>Hazard increases with peroxide concentration, high conce</li> <li>Pharmacokinetics</li> <li>Hydrogen peroxide is a normal product of metabolism. It is</li> <li>peroxide, target organs affected include the lungs, intestim</li> <li>Hydrogen peroxide has been detected in breath.</li> <li>Absorption: Hydrogen peroxide is produced metabolist transfer reaction, often catalysed by flavoproteins, or b</li> <li>Hydrogen peroxide has been detected in serum and in</li> <li>distribution sites. In rabbits and cats that died after intrintraperitoneal injection of hydrogen peroxide following</li> </ul>	cal Substances are search. ears after exposure to the material cease in occur following exposure to high level ease, in a non-atopic individual, with abr ible aiflow pattern, on spirometry, with t lymphocytic inflammation, without eosi ion is an infrequent disorder with rates r rd, is a disorder that occurs as result of ter exposure ceases. The disorder is ch entrations contain an additive stabiliser. a readily decomposed by catalase in non- e, thymus, liver, and kidney, suggesting bowel before absorption. When applied ically in intact cells and tissues. It is form by an initial one-electron step to O2 follow in intact liver. based on the results of toxic ravenous administration of hydrogen per pyknotic nuclei were induced in the inter oral administration of hydrogen peroxidd, is pre	es. This may be due to a non-allergenic condition known as 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 ned by reduction of oxygen either directly in a two-electron wed by dismutation to hydrogen peroxide. zity studies, the lungs, intestine, thymus, liver, and kidney may roxide, the lungs were pale and emphysematous. Following istine and thymus (IARC 1985). Degeneration of hepatic and e to mice.
	DNA damage in bacteria ( <i>E. coli</i> ), and was mutagenic to not to <i>Streptomyces griseoflavus</i> . It was not mutagenic to <b>Developmental Toxicity</b> Malformations have been observed in chicken embryos tre Female rats that received 0.45% hydrogen peroxide (equiv litters when mated with untreated males. Doses of 1.4 to 11 mol/egg hydrogen peroxide (purity 30% day 3 of incubation. Embryos were examined on day 14. The incidence of embr The combined ED50 was 2.7 mol/egg. <b>Reproductive Toxicity</b>	mas, and adenocarcinomas have been been observed. Papilloma development id exchanges and chromosomal aberra bacteria ( <i>Salmonella typhimurium</i> ) and t <i>Drosophila melanogaster</i> or to mammal ated with hydrogen peroxide, but experir ralent to approximately 630 mg/kg/day)7 6) dissolved in water were injected into t ryonic deaths and malformations was do g/kg/day) given as the sole drinking fluid	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 induce he fungi, <i>Neurospora crassa</i> and <i>Aspergillis chevallieri</i> , bu ian cells <i>in vitro</i> . ments with mice and rats have been negative.
Acute Toxicity	0	Carcinogenicity	
Acute Toxicity Skin Irritation/Corrosion	0	Carcinogenicity Reproductivity	0
	© ⊙ ✔	Carcinogenicity Reproductivity STOT - Single Exposure	© ©
Skin Irritation/Corrosion Serious Eye	0	Reproductivity	0
Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin	⊗ ✓	Reproductivity STOT - Single Exposure	© ©

### SECTION 12 ECOLOGICAL INFORMATION

### 12.1. 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 - Iquatic 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	Vaste treatment options Not Available	
Sewage disposal options	Not Available	

#### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	NO				
Marine Poliutant					
HAZCHEM	Not Applicable				
Land transport (ADR): NO	T 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)	Class     Not Applicable       Subrisk     Not Applicable				
	Hazard identification (Kemler) Not Applicable				

		Tiazaid identification (Remier)	
	14.6. Special precautions for user	Classification code	Not Applicable
		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	ot Applicable			
14.3. UN proper shipping name	Not Applicable			
14.4. Environmental hazard	Not Applicable			
14.5. Transport hazard class(es)	ICAO/IATA Class     Not Applicable       ICAO / IATA Subrisk     Not Applicable       ERG Code     Not Applicable			

	Special provisions	Not Applicable
	Cargo Only Packing Instructions	Not Applicable
	Cargo Only Maximum Qty / Pack	Not Applicable
14.6. Special precautions for user	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 Number     Not Applicable       Special provisions     Not Applicable       Limited Quantities     Not Applicable

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

14.1. UN number	Not Applicable				
14.2. Packing group	lot Applicable				
14.3. UN proper shipping name	lot Applicable				
14.4. Environmental hazard	t Applicable				
14.5. Transport hazard class(es)	Not Applicable Not Applicable				
14.6. Special precautions for user	Classification code       Not Applicable         Special provisions       Not Applicable         Limited quantity       Not Applicable         Equipment required       Not Applicable         Fire cones number       Not 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	UK Workplace Exposure Limits (WELs)

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	01-21	01-2119485845-22-XXXX	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)			Pictograms Signal Word Code(s)	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	GHS05, GHS03, Dgr, GHS02, GHS06, GHS09, Wng	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	Y	
Japan - ENCS	Y	
Korea - KECI	Y	
New Zealand - NZloC	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**

#### Full text Risk and Hazard codes

H225	Highly flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
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.
R35	Causes severe burns.
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	Xi	
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: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level 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.

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