

SDI Limited

Version No: 4.1.1.1 Safety Data Sheet (Conforms to Regulations (EC) No 2015/830) Issue Date: 08/04/2016 Print Date: 12/04/2016 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 Night 10% Carbamide 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 Rua Dr. Virgilio de Carvalho Pinto, 612 São Australia 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

Not 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	Not Applicable
Classification according to regulation (EC) No 1272/2008 [CLP]	Not Applicable

Issue Date: **08/04/2016** Print Date: **12/04/2016**

Pola Night 10% Carbamide Peroxide Gel

2.2. Label elements

CLP label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Supplementary statement(s)

EUH210 Safety data sheet available on request.

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

2.3. Other hazards

May produce discomfort of the eyes*.

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]
1.124-43-6 2.204-701-4 3.Not Available 4.Not Available	10	<u>urea</u> hydrogen peroxide	R8, R20/22, R34, R41 ^[1]	Oxidizing Solid Category 3, Metal Corrosion Category 1, Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1; H272, H290, H302, H332, H314, H318 ^[1]
		equivalent to:		
1.7722-84-1 2.231-765-0 3.008-003-00-9 4.01-2119485845-22-XXXX	4	<u>hvdrogen</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. Cl ion drawn from C&I		ive 67/548/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

General	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. 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

- 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

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. Decomposition may produce toxic fumes of; nitrogen oxides (NOx)May emit poisonous fumes.

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

	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.
Safe handling	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	See section 5
protection	
	Store in a dry and well ventilated-area, away from heat and sunlight.
Other information	Do not store in direct sunlight.
	Store between 2 and 25 deg C.

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	 Avoid storage with reducing agents. 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		1 ppm 3 mg/m3 / 2 ppm		Not Available	Not Available		
EMERGENCY LIMITS								
Ingredient	Material name			TEEL-1		TEEL-2		TEEL-3
urea hydrogen peroxide	Urea peroxide; (Urea hydrogen peroxide)			1.2 mg/m3		13 mg/m3		79 mg/m3
hydrogen peroxide	Hydrogen peroxide			Not Availabl	e	Not Availa	ble	Not Available
hydrogen peroxide	Hydrogen peroxide - 30%			33 ppm		170 ppm		330 ppm

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Ingredient	Original IDLH	Revised IDLH
urea hydrogen peroxide	Not Available	Not Available
hydrogen peroxide	75 ppm	75 [Unch] ppm

MATERIAL DATA

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. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.				
	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, 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 zone of rapid air motion) 1-2.5 m/s (200-5 f/min.)			
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).			
	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 curre	nts		
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxic	ity		
	3: Intermittent, low production. 3: High production, heavy us	9		
	4: Large hood or large air mass in motion 4: Small hood-local control of	nly		
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, according distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-40 solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance d apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are install	ly, after reference to) f/min) for extraction of eficits within the extraction		
8.2.2. Personal protection				
	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy documer lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption an 	t, describing the wearing of		
Eye and face protection	chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and su readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as pract at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed h Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]	itable equipment should be cable. Lens should be remove		
Eye and face protection	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as pract at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed h	itable equipment should be cable. Lens should be remove		
	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as pract at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed h Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]	itable equipment should be cable. Lens should be remove		
Skin protection	 readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as pract at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed h Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 	itable equipment should be cable. Lens should be remove		
Skin protection Hands/feet protection	readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as pract at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed h Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below • Wear chemical protective gloves, e.g. PVC. • Wear safety footwear or safety gumboots, e.g. Rubber • Rubber Gloves	itable equipment should be cable. Lens should be remove		

Respiratory protection

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

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

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

^ - Full-face

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

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 Relative density (Water = 1) 1.1 Gel Partition coefficient Not Available Not Available Odour n-octanol / water Auto-ignition temperature Odour threshold Not Available Not Available (°C) Decomposition 5.9-6.9 Not Available pH (as supplied) temperature

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

Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation, of the material, especially for prolonged periods, may produce respiratory 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 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.				
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this material				
Eye	Limited evidence exists, or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals and/or is expected to 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	Long-term exposure to the product is not thought to produce nevertheless exposure by all routes should be minimised as	e chronic effects adverse to health (as classified by EC Directives using animal models); a matter of course.			
Pola Night 10% Carbamide	ΤΟΧΙΟΙΤΥ	IRRITATION			
Peroxide Gel	Not Available	Not Available			
	тохісіту	IRRITATION			
urea hydrogen peroxide	Not Available	Not Available			
	тохісітү	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:	1. Value obtained from Europe ECHA Registered Substanc extracted from RTECS - Register of Toxic Effect of chemica	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data Il Substances			
	No significant acute toxicological data identified in literature	e search.			
UREA HYDROGEN PEROXIDE	reactive airways dysfunction syndrome (RADS) which can a	rs after exposure to the material ceases. This may be due to a non-allergenic condition known as occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis se, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes			

to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity

Image: Note of the second se						
HYDROGEN PEROXIDE HYDROGEN PEROXIDE <t< td=""><th></th><td colspan="5">irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.</td></t<>		irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.				
Acute Toxicity Carcinogenicity		No chronic human exposure data is available No significant acute toxicological data identified in literature ser- reactive airways dysfunction syndrome (RADS) which can oc of RADS include the absence of preceding respiratory disease to hours of a documented exposure to the irritant. A reversible on methacholine challenge testing and the lack of minimal lym of RADS. RADS (or asthma) following an irritating inhalation i irritating substance. Industrial bronchitis, on the other hand, is (often particulate in nature) and is completely reversible after of For hydrogen peroxide: Hazard increases with peroxide concentration, high concentra Pharmacokinetics Hydrogen peroxide is a normal product of metabolism. It is rea- peroxide, target organs affected include the lungs, intestine, th Hydrogen peroxide has been detected in breath. • Absorption: Hydrogen peroxide is produced metabolicall transfer reaction, often catalysed by flavoproteins, or by at • Hydrogen peroxide has been detected in serum and in int distribution sites. In rabbits and cats that died after intrave intraperitoneal injection of hydrogen peroxide in mice, pyl- renal tubular epithelial tissue was observed following oral • Metabolism Glutathione peroxidae, responsible for decc peroxide comes in contact with catalase, an enzyme found • Excretion Hydrogen peroxide has been detected in human Carcinogenicity Gastric and duodenal lesions including adenomas, carcinoma: Marked strain differences in the incidence of tumors have beer Genotoxicity Malformations have been observed in chicken embryos treated remale rats that received 0.45% hydrogen peroxide (equivaler Fermale rats that received 0.45% hydrogen peroxide (equivaler Fintra differences 1.1 mol/egg, hydrogen peroxide (equivaler Fermale rats that received 0.45% hydrogen peroxide (equivaler Fermale rats that received 0.45% hydrogen peroxide (equivaler Fermale rats that received 0.45% hydrogen peroxide (equivaler Fintras when mated with untreated males. Doses of 1.4	search. a after exposure to the material cease ccur following exposure to high levels e, in a non-atopic individual, with abri- a airflow pattern, on spirometry, with the nphocytic inflammation, without eosin is an infrequent disorder with rates in a disorder that occurs as result of e- exposure ceases. The disorder is ch- ations contain an additive stabiliser. adily decomposed by catalase in norr nymus, liver, and kidney, suggesting wel before absorption. When applied in the initial one-electron step to O2 follow tact liver. based on the results of toxic enous administration of hydrogen peroxide omposing hydrogen peroxide, is pres- in bload and most tissues, it rapidly an breath at levels ranging from 1.0+// s, and adenocarcinomas have been in observed. Papilloma development 1 exchanges and chromosomal aberration teria (<i>Salmonella typhimurium</i>) and the sophila melanogaster or to mammaliand d with hydrogen peroxide, but experim- int to approximately 630 mg/kg/day)7 issolved in water were injected into the nic deaths and malformations was door g/day) given as the sole drinking fluid unimal testing.	 as. This may be due to a non-allergenic condition known as so 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 med by reduction of oxygen either directly in a two-electron wed by dismutation to hydrogen peroxide. ty studies, the lungs, intestine, thymus, liver, and kidney may be oxide, the lungs were pale and emphysematous. Following stine and thymus (IARC 1985). Degeneration of hepatic and a to mice. sent in normal human tissues (IARC 1985). When hydrogen decomposes into oxygen and water. <i>t</i>-5 g/L to 0.34+/-0.17 g/L. observed in mice treated orally with hydrogen peroxide. has been observed in mice treated by dermal application. tions in mammalian cells <i>in vitro</i>. Hydrogen peroxide induced ne fungi, <i>Neurospora crassa</i> and <i>Aspergillis chevallieri</i>, but an cells <i>in vitro</i>. nents with mice and rats have been negative. as the sole drinking fluid for five weeks produced normal he airspace of groups of 20-30 white leghorn chicken eggs on se-related and detected at doses of 2.8 mol/egg and above. 		
	Acute Toxicity	0	Carcinogenicity	0		

Acute Toxicity	0	Carcinogenicity	\odot
Skin Irritation/Corrosion	\odot	Reproductivity	0
Serious Eye Damage/Irritation	\otimes	STOT - Single Exposure	\odot
Respiratory or Skin sensitisation	\otimes	STOT - Repeated Exposure	\odot
Mutagenicity	\odot	Aspiration Hazard	\odot

Legend:

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

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:		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

12.2. Persistence and degradability

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

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	
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

Not Applicable						
Not Applicable						
Not Applicable						
Not Applicable						
Class Not Applicable Subrisk Not Applicable						
Hazard identification (Kemler) Classification code Hazard Label Special provisions Limited quantity	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable					
	Not Applicable Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Classification code Hazard Label Special provisions	Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable	Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable	Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Hazard Label Not Applicable Special provisions Not Applicable	Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Special provisions Not Applicable	Not Applicable Not Applicable Class Not Applicable Subrisk Not Applicable Hazard identification (Kemler) Not Applicable Classification code Not Applicable Special provisions 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	
14.5. Transport hazard class(es)	ICAO/IATA Class Not Applicable ICAO / IATA Subrisk Not Applicable ERG Code Not Applicable	
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions	Not Applicable 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 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	Not Applicable		
14.3. UN proper shipping name	Not Applicable		
14.4. Environmental hazard	lot 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

1

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

UREA HYDROGEN PEROXIDE(124-43-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

	European Customs Inventory of Chemical Substances ECICS (English)	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
l	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	
urea hydrogen peroxide	124-43-6	Not Available		Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Sig Code(s)	gnal Word	Hazard Statement Code(s)

1	Ox. Sol. 3, Skin Corr. 1B	GHS05, GHS03, Dgr	H272, H314	
2	Ox. Sol. 3, Skin Corr. 1B, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Ox. Sol. 2	GHS05, GHS03, Dgr	H272, H314, H302, H318, H335	
Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.				

Ingredient	CAS number	Index No	ECH/	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 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	Υ
Canada - DSL	N (urea hydrogen peroxide)
Canada - NDSL	N (hydrogen peroxide)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (urea hydrogen peroxide)
Korea - KECI	Υ
New Zealand - NZIoC	Υ
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

H225	Highly flammable liquid and vapour.	
H271	May cause fire or explosion; strong oxidiser.	
H272	May intensify fire; 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.	
R34	Causes burns.	
R35	Causes severe burns.	
R41	Risk of serious damage to eyes.	
R5	Heating may cause an explosion.	
R8	Contact with combustible material may cause fire.	

Other information

DSD / DPD label elements

Not Applicable

Relevant risk statements are found in section 2.1

Indication(s) of danger Not Applicable

SAFETY ADVICE

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

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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