

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name:	Pola Night 22% Carbamide Peroxide Gel
Manufacturer:	SDI
SDS Expiry:	1 November 2024
Supplier Details:	Henry Schein New Zealand 23 William Pickering Drive, Albany PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	6
HSNO Group Standard:	Dental Products Subsidiary Hazard Group Standard 2020 HSR002558
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared - May 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





POLA NIGHT 22% CARBAMIDE PEROXIDE GEL SDI Limited

Chemwatch: 5195-59

Version No: 10.1.3.1

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier

Product name	POLA NIGHT 22% CARBAMIDE PEROXIDE GEL
Chemical Name	Not Applicable
Synonyms	Not Available
Chemical formula	Not Applicable
Other means of identification	Not Available

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

Relevant identified uses	To remove discoloration of teeth, to be performed by a dentist.
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Details of the supplier of the safety data sheet

Registered company name	SDI Limited
Address	3-15 Brunsdon Street Bayswater VIC 3153 Australia
Telephone	+61 3 8727 7111 (Business Hours)
Fax	+61 3 8727 7222
Website	www.sdi.com.au
Email	info@sdi.com.au

Emergency telephone number

Association / Organisation	SDI Limited
Emergency telephone numbers	+61 3 8727 7111
Other emergency telephone numbers	ray.cahill@sdi.com.au

SECTION 2 Hazards identification

Classification of the substance or mixture

Poisons Schedule	S6
Classification [1]	Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)



Signal word Warning

Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019

Print Date: 05/05/2021 L.GHS.AUS.EN

Issue Date: 01/11/2019 Print Date: 05/05/2021

POLA NIGHT 22% CARBAMIDE PEROXIDE GEL

Hazard statement(s)

H319 Causes serious eye irritation.

Precautionary statement(s) Prevention

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing 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	3 If eye irritation persists: Get medical advice/attention.	

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
124-43-6	22	urea hydrogen peroxide
Not Available		equivalent to:
7722-84-1	7.3	hydrogen peroxide
Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI: 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

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 or hair contact occurs: 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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

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

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

Advice for firefighters		
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water courses. Fight fire from a safe distance, with adequate cover. Extinguishers should be used only by trained personnel. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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. If fire gets out of control withdraw personnel and warn against entry. 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) carbon monoxide (CO) carbon dioxide (CO2) 	
HAZCHEM	Not Applicable	

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Wipe with absorbent towel. Wash with water (15 mins).
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water courses. No smoking, flames or ignition sources. Increase ventilation. Contain spill with sand, earth or other clean, inert materials. NEVER USE organic absorbents such as sawdust, paper or cloth. Use spark-free and explosion-proof equipment. Collect any recoverable product into labelled containers for possible recycling. Avoid contamination with organic matter to prevent subsequent fire and explosion. DO NOT mix fresh with recovered material. Collect residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. Decontaminate equipment and launder all protective clothing before storage and re-use. If contamination of drains or waterways occurs advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling

	5
Safe handling	 For oxidisers, including peroxides. Avoid personal contact and inhalation of dust, mist or vapours. Provide adequate ventilation. Always wear protective equipment and wash off any spillage from clothing. Keep material away from light, heat, flammables or combustibles.

	Keep cool, dry and away from incompatible materials.
	Avoid physical damage to containers.
	• DO NOT repack or return unused portions to original containers. Withdraw only sufficient amounts for immediate use.
	Use only minimum quantity required.
	Avoid using solutions of peroxides in volatile solvents. Solvent evaporation should be controlled to avoid dangerous
	concentration of the peroxide.
	Do NOT allow oxidisers to contact iron or compounds of iron, cobalt, or copper, metal oxide salts, acids or bases.
	Do NOT use metal spatulas to handle oxidisers
	Do NOT use glass containers with screw cap lids or glass stoppers.
	• Store peroxides at the lowest possible temperature, consistent with their solubility and freezing point.
	• CAUTION: Do NOT store liquids or solutions of peroxides at a temperature below that at which the oxidiser freezes or
	precipitates. Peroxides, in particular, in this form are extremely shock and heat-sensitive. Refrigerated storage of peroxides must
	ONLY be in explosion-proof units.
	• The hazards and consequences of fires and explosions during synthesis and use of oxidisers is widely recognised;
	spontaneous or induced decomposition may culminate in a variety of ways, ranging from moderate gassing to spontaneous
	ignition or explosion. The heat released from spontaneous decomposition of an energy-rich compound causes a rise in the
	surrounding temperature; the temperature will rise until thermal balance is established or until the material heats to
	decomposition,
	• The most effective means for minimising the consequences of an accident is to limit quantities to a practical minimum.
	Even gram-scale explosions can be serious. Once ignited the burning of peroxides cannot be controlled and the area should be
	evacuated.
	Unless there is compelling reason to do otherwise, peroxide concentration should be limited to 10% (or less with vigorous
	reactants). Peroxide concentration is rarely as high as 1% in the reaction mixture of polymerisation or other free-radical reactions
	• Oxidisers should be added slowly and cautiously to the reaction medium. This should be completed prior to heating and
	with good agitation.
	• Addition oxidisers to the hot monomer is extremely dangerous. A violent reaction (e.g., fire or explosion) can result from
	inadvertent mixing of promoters (frequently used with peroxides in polymerisation systems) with full-strength oxidisers
	Organic peroxides are very sensitive to contamination (especially heavy-metal compounds, metal oxide salts, alkaline
	materials including amines, strong acids, and many varieties of dust and dirt). This can initiate rapid, uncontrolled decomposition
	of peroxides and possible generation of intense heat, fire or explosion The consequences of accidental contamination from
	returning withdrawn material to the storage container can be disastrous.
	· When handling NEVER smoke, eat or drink.
	Always wash hands with soap and water after handling.
	Use only good occupational work practice.
	Observe manufacturer's storage and handling recommendations contained within this MSDS.
	Store between 2 and 25 deg C.
Other information	Do not store in direct sunlight.
	Store in a dry and well ventilated-area, away from heat and sunlight.

Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	Avoid strong bases.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	hydrogen peroxide	Hydrogen peroxide	1 ppm / 1.4 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
urea hydrogen peroxide	1.2 mg/m3	13 mg/m3		79 mg/m3
hydrogen peroxide	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
urea hydrogen peroxide	Not Available		Not Available	
hydrogen peroxide	75 ppm		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
urea hydrogen peroxide	E	≤ 0.01 mg/m³

Body protection

See Other protection below

POLA NIGHT 22% CARBAMIDE PEROXIDE GEL

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Lim	it
Notes:	Occupational exposure banding is a process of assigning ch potency and the adverse health outcomes associated with ex band (OEB), which corresponds to a range of exposure cond	xposure. The output of this process is an oc	cupational exposure
MATERIAL DATA			
Exposure controls			
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a engineering controls can be highly effective in protecting wor provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activi Enclosure and/or isolation of emission source which keeps at that strategically "adds" and "removes" air in the work enviro designed properly. The design of a ventilation system must m Employers may need to use multiple types of controls to prev General exhaust is adequate under normal operating conditic circumstances. If risk of overexposure exists, wear approved Provide adequate ventilation in warehouse or closed storage varying "escape" velocities which, in turn, determine the "cap the contaminant. Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (ii aerosols, fumes from pouring operations, intermittent conta welding, spray drift, plating acid fumes, pickling (released a generation) direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel gen velocity into zone of very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production. 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with distance generally decreases with the square of distance from the ext extraction point should be adjusted, accordingly, after referer extraction point should be adjusted, accordingly, after referer extraction fan, for example, should be a minimum of 1-2 m/s meters distant from the extraction point. Other mechanical co apparatus, make it essential that theoretical air velocities are installed or used.	kers and will typically be independent of wo ty or process is done to reduce the risk. selected hazard "physically" away from the nment. Ventilation can remove or dilute an a natch the particular process and chemical or vent employee overexposure. ons. Local exhaust ventilation may be required respirator. Correct fit is essential to obtain a areas. Air contaminants generated in the w obture velocities" of fresh circulating air required n still air). ainer filling, low speed conveyer transfers, at low velocity into zone of active conveyer loading, crusher dusts, gas merated dusts (released at high initial Upper end of the range 1: Disturbing room air currents 2: Contaminants of high toxicity 3: High production, heavy use 4: Small hood-local control only ce away from the opening of a simple extract raction point (in simple cases). Therefore th net to distance from the contaminating source (200-400 f/min) for extraction of solvents ge onsiderations, producing performance deficition	rker interactions to worker and ventilation air contaminant if r contaminant in use. red in specific adequate protection. orkplace possess ed to effectively remove Air Speed: 0.25-0.5 m/s (50-100 f/min) 0.5-1 m/s (100-200 f/min.) 1-2.5 m/s (200-500 f/min.) 2.5-10 m/s (500-2000 f/min.) 2.5-10 m/s (500-2000 f/min.) tion pipe. Velocity e air speed at the ce. The air velocity at the merated in a tank 2 ts within the extraction
Personal protection			
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact l document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for the Medical and first-aid personnel should be trained in their event of chemical exposure, begin eye irrigation immedia be removed at the first signs of eye redness or irritation - have washed hands thoroughly. [CDC NIOSH Current Immediation] 	s on use, should be created for each workpl e class of chemicals in use and an account of removal and suitable equipment should be ately and remove contact lens as soon as pr lens should be removed in a clean environm	ace or task. This should of injury experience. readily available. In the acticable. Lens should nent only after workers
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 		

Overalls.
 DVC Aprox

PVC Apron.

PVC protective suit may be required if exposure severe.

Eyewash unit.

Ensure there is ready access to a safety shower.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

Forsberg clothing Ferrormance index

Other protection

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

POLA NIGHT 22% CARBAMIDE PEROXIDE GEL

Material	СРІ
NAT+NEOPR+NITRILE	A
NATURAL RUBBER	A
NATURAL+NEOPRENE	A
NEOPRENE	A
NEOPRENE/NATURAL	A
NITRILE	A
PVC	A

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove,

a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear gel with spearmint odour, soluble in water.		
Physical state	Gel	Relative density (Water= 1)	1.1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	5.9-6.9	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

Respiratory protection

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

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

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

^ - Full-face

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

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable under normal handling conditions. Prolonged exposure to heat. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual.
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.
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 NIGHT 22%	ΤΟΧΙΟΙΤΥ	IRRITATION
CARBAMIDE PEROXIDE GEL	Not Available	Not Available
urea hydrogen peroxide	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: 700 mg/kg ^[1]	Eye: adverse effect observed (irreversible damage) ^[1]
	Oral(Mouse) LD50; 11500 mg/kg ^[1]	Skin: adverse effect observed (irritating) ^[1]
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available
		Notrivalable
hydrogen peroxide	Inhalation(Rat) LC50; 2 mg/L4h ^[2]	
hydrogen peroxide		

UREA HYDROGEN PEROXIDE	No chronic human exposure data is available
HYDROGEN PEROXIDE	 For hydrogen peroxide: Hazard increases with peroxide concentration, high concentrations contain an additive stabiliser. Pharmacokinetics Hydrogen peroxide is a normal product of metabolism. It is readily decomposed by catalase in normal cells. In experimental animals exposed to hydrogen peroxide, target organs affected include the lungs, intestine, thymus, liver, and kidney, suggesting its distribution to those sites. Hydrogen peroxide has been detected in breath. Absorption: Hydrogen peroxide is decomposed in the bowel before absorption. When applied to tissue, solutions of hydrogen peroxide have poor penetrability. Distribution Hydrogen peroxide is produced metabolically in intact cells and tissues. It is formed by reduction of oxygen either directly in a two-electron transfer reaction, often catalysed by flavoproteins, or by an initial one-electron step to O2 followed by dismutation to hydrogen peroxide.

	 Hydrogen peroxide has been detected in seru thymus, liver, and kidney may be distribution as peroxide, the lungs were pale and emphysem nuclei were induced in the intestine and thymu observed following oral administration of hydro. Metabolism Glutathione peroxidase, responsi (IARC 1985). When hydrogen peroxide comes decomposes into oxygen and water. Excretion Hydrogen peroxide has been detect Carcinogenicity Gastric and duodenal lesions including adenomas with hydrogen peroxide. Marked strain differences been observed in mice treated by dermal applicati Genotoxicity Hydrogen peroxide induced DNA damage, sister or vitro. Hydrogen peroxide induced DNA damage, sister or vitro. Hydrogen peroxide induced DNA damage in typhimurium) and the fungi, Neurospora crassa ar mutagenic to Drosophila melanogaster or to mam Developmental Toxicity Malformations have been observed in chicken embeen negative. Female rats that received 0.45% hydrogen peroxide (pu white leghorn chicken eggs on day 3 of incubatior Embryos were examined on day 14. The incidence doses of 2.8 mol/egg and above. The combined E Reproductive Toxicity A 1% solution of hydrogen peroxide (equivalent to for 7-28 days did not cause infertility. 	sites. In rabbits and cats that died atous. Following intraperitoneal in us (IARC 1985). Degeneration of I ogen peroxide to mice. ible for decomposing hydrogen per s in contact with catalase, an enzy ted in human breath at levels range s, carcinomas, and adenocarcinor is in the incidence of tumors have I ion. chromatid exchanges and chromo in bacteria (<i>E. coli</i>), and was muta ind <i>Aspergillis chevallieri</i> , but not to malian cells <i>in vitro</i> . ubryos treated with hydrogen pero de (equivalent to approximately 6 ith untreated males. urity 30%) dissolved in water were n. e of embryonic deaths and malfor iD50 was 2.7 mol/egg.	after intravenous administration of hydrogen jection of hydrogen peroxide in mice, pyknotic hepatic and renal tubular epithelial tissue was eroxide, is present in normal human tissues rme found in blood and most tissues, it rapidly ging from 1.0+/5 g/L to 0.34+/-0.17 g/L. has have been observed in mice treated orally been observed. Papilloma development has esomal aberrations in mammalian cells <i>in</i> genic to bacteria (<i>Salmonella</i> b <i>Streptomyces griseoflavus</i> . It was not xide, but experiments with mice and rats have 30 mg/kg/day)7 as the sole drinking fluid for e injected into the airspace of groups of 20-30 mations was dose-related and detected at
	NOT classifiable as to its carcinogenicity to human	ns.	
	Evidence of carcinogenicity may be inadequate or	0	
UREA HYDROGEN PEROXIDE & HYDROGEN PEROXIDE	No significant acute toxicological data identified in literature search. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, 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 on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. 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. 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	×
Skin Irritation/Corrosion	×	Reproductivity	×

Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
	Lege	end: 🗙 – Data either not avail	able or does not fill the criteria for classification

✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

POLA NIGHT 22% CARBAMIDE PEROXIDE GEL	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
urea hydrogen peroxide	Endpoint	Test Duration (hr)	Species	Value	Source
	EC0(ECx)	24h	Crustacea	0.9mg/l	2

	LC50	96h	Fish		37.4mg/l	2
	EC50	48h	Crustacea		2mg/l	2
	Endpoint	Test Duration (hr)	Species	Value		Source
	EC50(ECx)	48h	Crustacea	0.029-	0.039mg/L	4
	EC50	96h	Algae or other aquatic plants	2.27mg/l		4
hydrogen peroxide	EC50	72h	Algae or other aquatic plants	0.69mg/l		4
	LC50	96h	Fish	0.078-	0.25mg/L	4
	EC50	48h	Crustacea	0.029-	0.039mg/L	4
Legend:	3. EPIWIN Sui	1. IUCLID Toxicity Data 2. Europe ECHA te V3.12 (QSAR) - Aquatic Toxicity Data (atic Hazard Assessment Data 6. NITE (Ja	Estimated) 4. US EPA, Ecotox databa	se - Aquati	c Toxicity Da	ta 5.

DO NOT discharge into sewer or waterways.

Persistence and degradability

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

Bioaccumulative potential

Ingredient	Bioaccumulation
hydrogen peroxide	LOW (LogKOW = -1.571)

Mobility in soil

Ingredient	Mobility
hydrogen peroxide	LOW (KOC = 14.3)

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging	Consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal.	
disposal	Bury residue in an authorised landfill. Decontaminate empty containers.	

SECTION 14 Transport information

Labels Required	Labels Required		
Marine	Pollutant	NO	
н	AZCHEM	Not Applicable	

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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

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

Not Applicable

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

Product name	Group
urea hydrogen peroxide	Not Available
hydrogen peroxide	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
urea hydrogen peroxide	Not Available
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

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

urea hydrogen peroxide is found on the following regulatory lists			
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 10 / Appendix C	Australian Inventory of Industrial Chemicals (AIIC)		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5			
hydrogen peroxide is found on the following regulatory lists			
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6		
Australia Standard for the Uniform Scheduling of Medicines and Poisons	Australian Inventory of Industrial Chemicals (AIIC)		

(SUSMP) - Schedule 10 / Appendix C Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	No (urea hydrogen peroxide)	
Canada - NDSL	No (hydrogen peroxide)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (urea hydrogen peroxide)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (urea hydrogen peroxide)	
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 and are not exempt from listing(see specific ingredients in brackets)	

SECTION 16 Other information

Revision Date	01/11/2019
Initial Date	04/11/2015

SDS Version Summary

Version Date of Update	Sections Updated
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Version	Date of Update	Sections Updated
9.1.1.1	24/05/2016	Acute Health (eye), Classification, Fire Fighter (fire/explosion hazard), Ingredients, Personal Protection (hands/feet), Transport, Transport Information
10.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
10.1.2.1	26/04/2021	Regulation Change
10.1.3.1	03/05/2021	Regulation Change

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value I OD. Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals **DSL: Domestic Substances List** NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances 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 TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances This document is copyright.

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