SDI Limited

Version No: 4.1.1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: 08/04/2016 Print Date: 12/04/2016 Initial Date: Not Available L.GHS.USA.EN

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Pola Night 10% Carbamide Peroxide Gel	
Synonyms	Not Available	
Other means of identification	Not Available	
Recommended use of the chemical and restrictions on use		

Relevant identified uses	To remove discoloration of teeth under the supervision of a dentist.
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	SDI Limited	SDI Brazil Industria E Comercio Ltda	SDI Germany GmbH		
Address	3-15 Brunsdon Street VIC Bayswater 3153 Australia	eet VIC Bayswater 3153 Rua Dr. Virgilio de Carvalho Pinto, 612 São Paulo CEP 05415-020 Brazil Hansestrasse 85 Cologne I			
Telephone	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				
Fax					
Website	www.sdi.com.au	www.sdi.com.au	www.sdi.com.au		
Email	info@sdi.com.au	germany@sdi.com.au			
Registered company name	SDI (North America) Inc.				
Address	Address 1279 Hamilton Parkway IL Itasca 60143 United States				
Telephone	+1 630 361 9200 (Business hours)				
Fax	Not Available				
Website	Not Available	Not Available			
Email	USA.Canada@sdi.com.au				

Emergency phone number

Association / Organisation	SDI Limited Not Available Not Available					
Emergency telephone numbers	+61 3 8727 7111	+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 Not Available					
Other emergency telephone numbers						

SECTION 2 HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

NFPA 704 diamond



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Not Applicable

GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

Hazard statement(s)

Not Applicable

Hazard(s) not otherwise specified

Not Applicable

Precautionary statement(s) Prevention Not Applicable

Precautionary statement(s) Response Not Applicable

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	10	urea hydrogen peroxide
		equivalent to:
7722-84-1	4	hydrogen peroxide

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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 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.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- Foam
- 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 None known.

Special protective equipment and precautions for fire-fighters

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	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

Personal precautions, protective equipment and emergency procedures

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water.
Major Spills	 Minor hazard. Clear area of personnel. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment as required. Prevent spillage from entering drains or water ways. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal. Wash area and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

	Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT enter confined spaces until atmosphere has been checked. DO NOT enter confined to contact humans, exposed food or food utensils. Avoid contact with incompatible materials.
	When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information Do I	e in a dry and well ventilated-area, away from heat and sunlight. 1ot store in direct sunlight. e between 2 and 25 deg C.

Storage incompatibility Avoid storage with reducing agents.	Suitable conta	ner DO NOT repack. Use containers supplied by manufacturer only.
Avoid strong bases.	Storage incompatil	Ility Avoid storage with reducing agents. 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
US OSHA Permissible Exposure Levels (PELs) - Table Z1	hydrogen peroxide	Hydrogen peroxide	1.4 mg/m3 / 1 ppm	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	hydrogen peroxide	Hydrogen peroxide	1 ppm	Not Available	Not Available	TLV® Basis: Eye, URT, & skin irr
US NIOSH Recommended Exposure Limits (RELs)	hydrogen peroxide	High-strength hydrogen peroxide, Hydrogen dioxide, Hydrogen peroxide (aqueous), Hydroperoxide, Peroxide	1.4 mg/m3 / 1 ppm	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TE	EL-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	t Available	Not Available	Not Available
hydrogen peroxide	Hydrogen peroxide - 30%	33	ppm	170 ppm	330 ppm
Ingredient	Original IDLH		Revised IDLH		
urea hydrogen peroxide	Not Available		Not Available		
hydrogen peroxide	75 ppm		75 [Unch] ppm		

MATERIAL DATA

Exposure controls

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Other protection P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. 	Body protection	See Other protection below		
Thermal hazards Not Available	Other protection	 P.V.C. apron. Barrier cream. Skin cleansing cream. 		
	Thermal hazards	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 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Product is considered stable and 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 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 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	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		s classified by EC Directives using animal models);
	nevertheless exposure by all routes should be minimised as	a matter of course.	
Pola Night 10% Carbamide	TOXICITY	IRRITATION	
Peroxide Gel	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
urea hydrogen peroxide	Not Available	Not Available	
	ΤΟΧΙCΙΤΥ	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]		
	· · · · · · · · · · · · · · · · · · ·	I	
Legend:	 Value obtained from Europe ECHA Registered Substance extracted from RTECS - Register of Toxic Effect of chemical 		from manufacturer's SDS. Unless otherwise specified data
UREA HYDROGEN PEROXIDE	of RADS include the absence of preceding respiratory disea to hours of a documented exposure to the irritant. A reversib on methacholine challenge testing and the lack of minimal ly	rs after exposure to the material cease occur following exposure to high level se, in a non-atopic individual, with ab le airflow pattern, on spirometry, with imphocytic inflammation, without eosi n is an infrequent disorder with rates i is a disorder that occurs as result of	s of highly irritating compound. Key criteria for the diagnosis rupt onset of persistent asthma-like symptoms within minutes the presence of moderate to severe bronchial hyperreactivity nophilia, have also been included in the criteria for diagnosis related to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance
HYDROGEN PEROXIDE	 to hours of a documented exposure to the irritant. A reversib on methacholine challenge testing and the lack of minimal ly of RADS. RADS (or asthma) following an irritating inhalation irritating substance. Industrial bronchitis, on the other hand, (often particulate in nature) and is completely reversible after For hydrogen peroxide: Hazard increases with peroxide concentration, high concern Pharmacokinetics Hydrogen peroxide is a normal product of metabolism. It is re peroxide, target organs affected include the lungs, intestine, Hydrogen peroxide has been detected in breath. Absorption: Hydrogen peroxide is produced metabolica transfer reaction, often catalysed by flavoproteins, or by Hydrogen peroxide has been detected in serum and in in distribution Hydrogen peroxide is produced metabolica transfer reaction, often catalysed by flavoproteins, or by Hydrogen peroxide has been detected in serum and in in distribution sites. In rabbits and cats that died after intrav- intraperitoneal injection of hydrogen peroxide following or Metabolism Glutathione peroxidaes, responsible for de peroxide comes in contact with catalase, an enzyme fou Excretion Hydrogen peroxide has been detected in hum Carcinogenicity Gastric and duodenal lesions including adenomas, carcinom Marked strain differences in the incidence of tumors have be Genotoxicity Hydrogen peroxide induced DNA damage, sister chromatid DNA damage in bacteria (<i>E. coli</i>), and was mutagenic to be not to <i>Streptomyces griseoflavus</i>. It was not mutagenic to be not to <i>Streptomyces griseoflavus</i>. It was not mutagenic to be thermate rats that received 0.45% hydrogen peroxide (equival litters when mated with untreated males. 	le airflow pattern, on spirometry, with I rmphocytic inflammation, without eosi is an infrequent disorder with rates i is a disorder that occurs as result of r exposure ceases. The disorder is ch trations contain an additive stabiliser. eadily decomposed by catalase in nor thymus, liver, and kidney, suggesting wel before absorption. When applied ally in intact cells and tissues. It is form an initial one-electron step to O2 follon tact liver. based on the results of toxis venous administration of hydrogen pe yknotic nuclei were induced in the inte al administration of hydrogen peroxide, is pre nd in blood and most tissues, it rapidly han breath at levels ranging from 1.04 as, and adenocarcinomas have been en observed. Papilloma development exchanges and chromosomal aberra acteria (<i>Salmonella typhimurium</i>) and t rosophila melanogaster or to mammal ed with hydrogen peroxide, but experir ent to approximately 630 mg/kg/day)7 dissolved in water were injected into to price deaths and malformations was do	nophilia, have also been included in the criteria for diagnosis related to the concentration of and duration of exposure to the exposure due to high concentrations of irritating substance haracterised by dyspnea, cough and mucus production. Imal cells. In experimental animals exposed to hydrogen its distribution to those sites. Ito tissue, solutions of hydrogen peroxide have poor med by reduction of oxygen either directly in a two-electron wed by dismutation to hydrogen peroxide. Ity studies, the lungs, intestine, thymus, liver, and kidney may be roxide, the lungs were pale and emphysematous. Following ustine and thymus (IARC 1985). Degeneration of hepatic and e to mice. sent in normal human tissues (IARC 1985). When hydrogen 'decomposes into oxygen and water. /-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 he fungi, <i>Neurospora crassa</i> and <i>Aspergillis chevallieri</i> , but ian cells <i>in vitro</i> . ments with mice and rats have been negative. "as the sole drinking fluid for five weeks produced normal the airspace of groups of 20-30 white leghorn chicken eggs on use-related and detected at doses of 2.8 mol/egg and above.
	NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in	-	
Acute Toxicity Skin Irritation/Corrosion	0	Carcinogenicity	0

Serious Eye Damage/Irritation	\otimes	STOT - Single Exposure	\otimes
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
			– Data available but does not fill the criteria for classification – Data required to make classification available

 \odot – Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

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 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data			

DO NOT discharge into sewer or waterways.

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 disposal Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required		
Marine Pollutant	NO	
Land transport (DOT): 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

SECTION 15 REGULATORY INFORMATION

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

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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

Pola Night 10% Carbamide Peroxide Gel

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List	Contaminants
Passenger and Cargo Aircraft	US - Washington Permissible exposure limits of air contaminants
US - Alaska Limits for Air Contaminants	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
US - California Permissible Exposure Limits for Chemical Contaminants	US ACGIH Threshold Limit Values (TLV)
US - Hawaii Air Contaminant Limits	US ACGIH Threshold Limit Values (TLV) - Carcinogens
US - Idaho - Limits for Air Contaminants	US NIOSH Recommended Exposure Limits (RELs)
US - Michigan Exposure Limits for Air Contaminants	US OSHA Permissible Exposure Levels (PELs) - Table Z1

US - Minnesota Permissible Exposure Limits (PELs)

US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Mutagens

US - Oregon Permissible Exposure Limits (Z-1)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	NO
Delayed (chronic) health hazard	NO
Fire hazard	NO
Pressure hazard	NO
Reactivity hazard	NO

US SARA Section 302 Extremely Hazardous Substances

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4) None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

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	Y
Philippines - PICCS	Υ
USA - TSCA	Υ
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

Other information

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

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

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: Prepared by: SDI Limited 3-15 Brunsdon Street, Bayswater Victoria, 3153, Australia Phone Number: +61 3 8727 7111 Department issuing SDS: Research and Development Contact: Technical Director