

# SDI Limited Version No: 6.1

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

Issue Date: 23/12/2022 Print Date: 17/11/2023 L.GHS.AUS.EN

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

#### **Product Identifier**

Product name	Pola Professional 35% Liquid
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilised as necessary)
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 Professional Dental use: To medically bleach endodontically treated teeth, to be performed by a dentist.

#### Details of the manufacturer or supplier of the safety data sheet

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

#### Emergency telephone number

Association / Organisation	SDI Limited	CHEMWATCH EMERGENCY RESPONSE (24/7)
Emergency telephone numbers	131126 Poisons Information Centre	+61 1800 951 288
Other emergency telephone numbers	+61 3 8727 7111	+61 3 9573 3188

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

#### **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	S6
Classification <sup>[1]</sup>	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3
Legend:	1. Classification by vendor; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

#### Label elements

Hazard pictogram(s)



Signal word	Danger
Hazard statement(s)	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

#### Precautionary statement(s) Prevention

Signal word Danger

• • • • •	
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

#### Precautionary statement(s) Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician/first aider.
IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Rinse mouth.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

#### Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
7722-84-1	35	hydrogen peroxide
Legend:	1. Classification by vendor; 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 If this product comes in contact with the eyes: ▶ Immediately hold eyelids apart and flush the eye continuously with 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 Eye Contact and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Skin Contact Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Inhalation Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary Transport to hospital, or doctor. 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. Ingestion 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

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

# 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Fight fire from a safe distance, with adequate cover.</li> <li>Extinguishers should be used only by trained personnel.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>If fire gets out of control withdraw personnel and warn against entry.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>	
Fire/Explosion Hazard	<ul> <li>Will not burn but increases intensity of fire.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Heat affected containers remain hazardous.</li> <li>Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition.</li> <li>May emit irritating, poisonous or corrosive fumes.</li> </ul>	
HAZCHEM	2P	

#### **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	<ul> <li>Clean up all spills immediately.</li> <li>No smoking, naked lights, ignition sources.</li> <li>Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result.</li> <li>Avoid breathing dust or vapours and all contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with dry sand, earth, inert material or vermiculite.</li> <li>DO NOT use sawdust as fire may result.</li> <li>Scoop up solid residues and seal in labelled drums for disposal.</li> <li>Neutralise/decontaminate area.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Consider evacuation (or protect in place).</li> <li>No smoking, flames or ignition sources.</li> <li>Increase ventilation.</li> <li>Contain spill with sand, earth or other clean, inert materials.</li> <li>NEVER use organic absorbents such as sawdust, paper, cloth; as fire may result.</li> <li>Avoid any contamination by organic matter.</li> <li>Use spark-free and explosion-proof equipment.</li> <li>Collect any recoverable product into labelled containers for possible recycling.</li> <li>DO NOT mix fresh with recovered material.</li> <li>Collect residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>Decontaminate equipment and launder all protective clothing before storage and re-use.</li> <li>If contamination of drains or waterways occurs advise emergency services.</li> </ul>

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

# **SECTION 7 Handling and storage**

Precautions for safe handling	
Safe handling	For oxidisers, including peroxides.
Other information	Store in a dry and well ventilated-area, away from heat and sunlight. Store between 2 and 8 deg C. <b>Do not</b> store in direct sunlight.

# Conditions for safe storage, including any incompatibilities

Suitable container	DO NOT repack. Use containers supplied by manufacturer only.
Storage incompatibility	Avoid strong acids, 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
hydrogen peroxide	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
hydrogen peroxide	75 ppm		Not Available	

# MATERIAL DATA

### Exposure controls

Expedite controlo	
Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.
	Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the 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	n still air).	0.25-0.5 m/s (50-100 f/min.)
	aerosols, fumes from pouring operations, intermittent conta drift, plating acid fumes, pickling (released at low velocity ir		0.5-1 m/s (100-200 f/min.)
	direct spray, spray painting in shallow booths, drum filling, or generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ger very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)	
	Within each range the appropriate value depends on:		
	Lower end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity	
	3: Intermittent, low production.	3: High production, heavy use	
	4: Large hood or large air mass in motion	4: Small hood-local control only	
	accordingly, after reference to distance from the contaminatir 1-2 m/s (200-400 f/min) for extraction of solvents generated i producing performance deficits within the extraction apparatu more when extraction systems are installed or used.	n a tank 2 meters distant from the extraction point. Other me	echanical considerations,
Individual protection neasures, such as personal protective equipment			
Eye and face protection	the wearing of lenses or restrictions on use, should be cr and adsorption for the class of chemicals in use and an their removal and suitable equipment should be readily a remove contact lens as soon as practicable. Lens should	quivalent] enses may absorb and concentrate irritants. A written policy eated for each workplace or task. This should include a revi account of injury experience. Medical and first-aid personnel vailable. In the event of chemical exposure, begin eye irriga be removed at the first signs of eye redness or irritation - le nds thoroughly. [CDC NIOSH Current Intelligence Bulletin 55	ew of lens absorption should be trained in tion immediately and ens should be removed in
Skin protection	See Hand protection below		
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>		
Body protection	See Other protection below		
	<ul><li>Overalls.</li><li>PVC Apron.</li></ul>		

# **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, colourless liquid, mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.13
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available

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# Pola Professional 35% Liquid

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

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable under normal handling conditions.</li> <li>Prolonged exposure to heat.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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	Inhalation of vapours or aerosols (mists, fumes), generate of the individual.	d by the material during the course of normal handling, may be damaging to the healt				
innaieu	Evidence shows, or practical experience predicts, that the individuals following inhalation.	material produces irritation of the respiratory system in a substantial number of				
Ingestion	Accidental ingestion of the material may be harmful; anima produce serious damage to the health of the individual.	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.				
	Skin contact will result in rapid drying, bleaching, leading t Open cuts, abraded or irritated skin should not be exposed Entry into the blood-stream through, for example, cuts, ab Examine the skin prior to the use of the material and ensu	d to this material rasions, may produce systemic injury with harmful effect				
Skin Contact	Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.					
Eye	When applied to the eye(s) of animals, the material produc	ces severe ocular lesions which are present twenty-four hours or more after instillatio				
Chronic	Limited evidence suggests that repeated or long-term occ biochemical systems.	upational exposure may produce cumulative health effects involving organs or				
Delo Profossional 25% Liquid	ΤΟΧΙΟΙΤΥ	IRRITATION				
ola Professional 35% Liquid	Not Available	Not Available				
	тохісіту	IRRITATION				
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available				
hydrogen peroxide	Inhalation(Mouse) LC50; 2800 mg/L4h <sup>[2]</sup>					
	Oral (Rat) LD50: >225 mg/kg <sup>[2]</sup>					
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substar specified data extracted from RTECS - Register of Toxic E</li> </ol>	nces - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Effect of chemical Substances				

HYDROGEN PEROXIDE

known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

	For hydrogen peroxide: Hazard increases with peroxide concentration, high co <b>Pharmacokinetics</b>		
	Hydrogen peroxide is a normal product of metabolism. hydrogen peroxide, target organs affected include the Hydrogen peroxide has been detected in breath.		
		the bowel before absorption. When a	pplied to tissue, solutions of hydrogen peroxide have
	<ul> <li>Distribution Hydrogen peroxide is produced metab two-electron transfer reaction, often catalysed by f peroxide.</li> </ul>		s formed by reduction of oxygen either directly in a tron step to O2 followed by dismutation to hydrogen
	<ul> <li>Hydrogen peroxide has been detected in serum al and kidney may be distribution sites. In rabbits an and emphysematous. Following intraperitoneal inj thymus (IARC 1985). Degeneration of hepatic and peroxide to mice.</li> </ul>	d cats that died after intravenous adm ection of hydrogen peroxide in mice,	ninistration of hydrogen peroxide, the lungs were pale pyknotic nuclei were induced in the intestine and
	<ul> <li>Metabolism Glutathione peroxidase, responsible for</li> </ul>		s present in normal human tissues (IARC 1985). d most tissues, it rapidly decomposes into oxygen and
	<ul> <li>Excretion Hydrogen peroxide has been detected in</li> </ul>	n human breath at levels ranging fron	n 1.0+/5 g/L to 0.34+/-0.17 g/L.
	Carcinogenicity		
	Gastric and duodenal lesions including adenomas, can peroxide. Marked strain differences in the incidence of by dermal application.		
	Genotoxicity		
	Hydrogen peroxide induced DNA damage, sister chror peroxide induced DNA damage in bacteria ( <i>E. coli</i> ), ar	nd was mutagenic to bacteria (Salmor	nella typhimurium) and the fungi, Neurospora crassa
	and Aspergillis chevallieri, but not to Streptomyces gris Developmental Toxicity	seoflavus. It was not mutagenic to Dr	osophila melanogaster or to mammalian cells in vitro.
	Malformations have been observed in chicken embryo	s treated with hydrogen peroxide, but	experiments with mice and rats have been negative.
	Female rats that received 0.45% hydrogen peroxide (e		g/day)7 as the sole drinking fluid for five weeks
	produced normal litters when mated with untreated ma Doses of 1.4 to 11 mol/egg hydrogen peroxide (purity		Linto the airspace of groups of 20-30 white legborn
	chicken eggs on day 3 of incubation.		a mo are anopace of groups of 20-30 while legitorit
	Embryos were examined on day 14. The incidence of		was dose-related and detected at doses of 2.8
	mol/egg and above. The combined ED50 was 2.7 mol/	/egg.	
	Reproductive Toxicity A 1% solution of hydrogen peroxide (equivalent to 190	0 mg/kg/day) given as the sole drinki	ng fluid to three-month-old male mice for 7-28 davs
	did not cause infertility.		J
	The substance is classified by IARC as Group 3:		
	<b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limi	ted in animal testing.	
		i i i i i i i i i i i i i i i i i i i	
Acute Toxicity	<ul><li>✓</li></ul>	Carcinogenicity	×
Skin Irritation/Corrosion	◆	Reproductivity	×
Serious Eye Damage/Irritation	◆	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

Legend: X – Data

Aspiration Hazard

×

 $\pmb{\times}$  – Data either not available or does not fill the criteria for classification  $\pmb{\vee}$  – Data available to make classification

# **SECTION 12 Ecological information**

Mutagenicity

×

#### Toxicity

Pola Professional 35% Liquid	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	0.69mg/l	4
	EC50	48h	Crustacea	2mg/l	2
hydrogen peroxide	EC50	96h	Algae or other aquatic plants	2.27mg/l	4
	NOEC(ECx)	72h	Algae or other aquatic plants	0.1mg/l	1
	LC50	96h	Fish	16.4mg/l	2
Legend:	Ecotox databas		HA Registered Substances - Ecotoxicological Informatic Aquatic Hazard Assessment Data 6. NITE (Japan) - Bio		

DO NOT discharge into sewer or waterways.

# Persistence and degradability

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

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	<ul> <li>DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material)</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

# **SECTION 14 Transport information**

# Labels Required



# Land transport (ADG)

14.1. UN number or ID number	2014		
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilised as necessary)		
14.3. Transport hazard class(es)	Class5.1Subsidiary Hazard8		
14.4. Packing group	I		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions     Not Applicable       Limited quantity     1 L		

# Air transport (ICAO-IATA / DGR)

14.1. UN number	2014			
14.2. UN proper shipping name	Hydrogen peroxide, aqueous solution with more than 40% but 60% or less hydrogen peroxide (stabilized as necessary); Hydrogen peroxide, aqueous solution with 20% or more but 40% or less hydrogen peroxide (stabilized as necessary)			
14.3. Transport hazard class(es)	ICAO/IATA Class	5.1		
	ICAO / IATA Subsidiary Hazard	8		
	ERG Code	ERG Code 5C		
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A2 A75	
	Cargo Only Packing Instructions		554; Forbidden	
14.6. Special precautions for user	Cargo Only Maximum Qty / Pack		5 L; Forbidden	
	Passenger and Cargo Packing Instructions		550; Forbidden	
	Passenger and Cargo Maximum Qty / Pack		1 L; Forbidden	
	Passenger and Cargo Limited Quantity Packing Instructions		Y540; Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack		0.5 L; Forbidden	

#### Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2014			
14.2. UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION with not less than 20% but not more than 60% hydrogen peroxide (stabilized as necessary)			
14.3. Transport hazard class(es)	IMDG Class5.1IMDG Subsidiary Hazard8			
14.4. Packing group	II			
14.5 Environmental hazard	Not Applicable			
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	F-H, S-Q Not Applicable		

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

Not Applicable

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

Product name	Group
hydrogen peroxide	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
hydrogen peroxide	Not Available

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

#### **SECTION 15 Regulatory information**

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

#### 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 10 / Appendix C

- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 5
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

#### **National Inventory Status**

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

# **SECTION 16 Other information**

Revision Date	23/12/2022
Initial Date	10/11/2015

#### **SDS Version Summary**

Version

Version	Date of Update	Sections Updated
5.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
6.1	23/12/2022	Classification review due to GHS Revision change.

#### Other information

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

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

#### **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
- 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
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
   BEI: Biological Exposure Index
- BEI: Biological Exposure Index
   DNEL: Derived No-Effect Level
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration

#### 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
- 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

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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