# Safety Data Sheet

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Infosafe No™

3CHGV

Issue Date : August 2019

RE-ISSUED by CHEMSUPP

Product Name : HYDROGEN PEROXIDE 30% w/w

Classified as hazardous

1. Identification	
GHS Product	HYDROGEN PEROXIDE 30% w/w
Identifier	
Product Code	HA154
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax Number	Tel: (08) 8440-2000
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Bleaching and deodorizing of wood pulp, textiles, hair and fur; source of organic and inorganic peroxides; pulp and paper industry; plasticizers; foam rubber; manufacture of glycerol; antichlor; dyeing; electroplating; antiseptic; epoxidation, hydroxylation, oxidation and reduction; viscosity control for starch and cellulose derivatives; refining and cleaning metals; bleaching and oxidizing agent in foods; seed disinfectant; neutralising agent in wine distillation; substitute for chlorine in water and sewage treatment; and laboratory reagent.
Other Names	Name Product Code
	HYDROGEN PEROXIDE 30% Peroxide Hydrogen dioxide Hydroperoxide
Other Information	HYDROGEN PEROXIDE 30% w/w Reagent Grade HR154
	Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.
2. Hazard Identif	ication
GHS classification of the substance/mixture Signal Word (s)	Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1 Hazardous to the Aquatic Environment - Acute Hazard: Category 2 DANGER
Lissand Chatamant	1200 Llormful if availated

**Hazard Statement** H302 Harmful if swallowed. H318 Causes serious eye damage. H401 Toxic to aquatic life Corrosion, Exclamation mark,

Pictogram (s)

(s)



Precautionary	P270 Do not eat, drink or smoke when using this product.
statement –	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Prevention	P273 Avoid release to the environment.
Precautionary statement – Response	<ul> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>P330 Rinse mouth.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 Immediately call a POISON CENTER or doctor/physician.</li> <li>P391 Collect spillage.</li> </ul>

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Product Name :	HYDROGEN PE	ROXIDE 30% w/w				
		Classified as haz	zardous			
Precautionary statement – Disposal	P501 Dispose of contents/container according to local, state and federal regulations.					
3. Composition/i	nformation on	ngredients				
Chemical Characterization	Liquid					
Ingredients	<u>Name</u>	CAS	<b>Proportion</b>	Hazard Symbol	<b>Risk Phrase</b>	
Other Information	Water Hydrogen peroxid May contain <1%	7732-18-5 7722-84-1 stabiliser.	50-70 % 30-50 %			
4. First-aid meas						
Inhalation		from contaminated area to f	fresh air immediate	ly. Apply artificial res	piration if not	
	breathing. If breat	ning is difficult, give oxygen.				
Ingestion		ughly with water immediatel			been removed.	
Skin	Ensure contamina	DO NOT INDUCE VOMITING. Seek medical advice if effects persist. Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the				
Eye contact	severity. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek					
First Aid Facilities		immediate medical assistance. Maintain eyewash fountain and drench facilities in work area.				
Advice to Doctor Other Information	Treat symptomatically and supportively. Attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. In the event of severe distension of the stomach or esophagus due to gas formation, insertion of a gastric tube may be required. To treat corneal damage, careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered. Monitor for respiratory tract irritation and hypoxia after severe inhalation exposure. For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.					
5. Fire-fighting n	neasures					
Hazards from Combustion	Molecular oxygen, combustion.	which can accelerate the bu	urning of flammable	e materials or cause	spontaneous	
Products Specific Methods	Small fire: USE FLOODING QUANTITIES OF WATER. Do not use dry chemicals, CO2 or foam. If safe to do so, move undamaged containers from fire area. Do not move cargo if cargo has been exposed to boot					
Specific hazards arising from the	heat. Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after fire is out - If impossible, withdraw from area and let fire burn. Avoid getting water inside containers: a violent reaction may occur. Dam fire control water for later disposal. Will accelerate burning when involved in a fire. May explode from heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood,					
chemical	explode when hea	c). Fire may produce irritatin ted. Runoff may create fire o			Containers may	
Hazchem Code Decomposition	2P >= 60 °C (Self-Acc	elerating decomposition ten		(> 50%))· < 60 °C (eld	w decomposition)	
Temp. Precautions in connection with Fire	(> 50%); l00 °C in Wear SCBA and c	25 kg package (SADT (35% hemical splash suit. Structur	5)); 80 °C in I m³ vo	lume (SADT (35%)).		
Other Information	Concentrations of spontaneous igniti and above can ca and will support, a	27.5% up to 52% will cause on of combustible materials use combustible materials s ccelerate and intensify the b ed to form an oxygen-rich a	with which it come uch as wood, pape ourning of combust	es in contact. Concenter, oils and grease to	trations of 35% burst into flames	

### 6. Accidental release measures



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## Product Name : HYDROGEN PEROXIDE 30% w/w

### Classified as hazardous

Spills & Disposal	Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat. Dry Spill		
	Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area. Small Liguid Spill		
	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal. Large Liquid Spill		
	SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.		
Personal	Avoid inhalation, contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel.		
Precautions Personal Protection	Use personal protective equipment listed in Section 8.		

## 7. Handling and storage

Precautions for Safe	Avoid contact with eyes, skin, and clothing. Keep container locked up and tightly sealed. Contents may
Handling	develop pressure upon prolonged storage. Open carefully. Loosen caps slowly to release any pressure.
-	Ensure good ventilation at the workplace. n case of insufficient ventilation, wear suitable respiratory
	equipment. If ingested, seek medical advice immediately and show the container or the label. Wash
	thoroughly after handling. Keep away from heat, welding and all sources of ignition, even when empty.
	This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause
	ignition. Substance/product can reduce the ignition temperature of flammable substances. Keep
	combustible materials away from the area, maintain all equipment in a thoroughly clean condition. Do
	not use metal equipment or containers. Containers and equipment used to handle the product should be
	used exclusively for that product. Handling systems must exclude fittings of iron, brass, copper, Monel,
	and screwed joints caulked with red lead. Rinse empty drums and containers thoroughly with water
	before discarding.
Conditions for safe	Store in tightly closed, light-resistant, vented containers, in a dark, cool, dry, well-ventilated area, away
storage, including	from incompatible materials such as combustible substances, reducing agents, strong bases, acids,
any	organics, foodstuffs flammable substances, metals, and oxidizable materials. Use adequate venting
incompatabilities	devices on all packages, containers and tanks to permit release of internal pressure. Protect from
• ·	physical damage, direct sunlight, moisture and contamination.
Corrosiveness	Corrosivity to Metals: Hydrogen peroxide solutions (35% and greater) are corrosive (corrosion rate
	greater than 1.27 mm/year) to carbon steel (types 1010 and 1020 (35-100%); 1075, 1095 and 12L14
	(100%), grey cast iron, 3% nickel cast iron, ductile cast iron, the nickel base alloys, Hastelloy B and D
	and Monel, copper, nickel-copper alloy, brass, cartridge brass, bronze, aluminium bronze, naval bronze,
	silicon bronze, and lead at room temperature. Hydrogen peroxide solutions attack types 1010 and 1020
	carbon steel at any concentration and temperature. One source reports that 50-90% hydrogen peroxide
	is corrosive to type 3003 aluminium. Hydrogen peroxide solutions (35% and greater) are not corrosive (corrosion rate less than 0.5 mm/year)
	to stainless steel (e.g. types 303, 304, 316, 17-4PH, 400 series, Carpenter 20Cb-3), aluminium (99.5%),
	certain aluminium alloys (types 1060, 5052, 6063 and aluminium-magnesium alloys), nickel (100%
	solution), the nickel-base alloys, Hastelloy C and Inconel, tantalum, titanium and zirconium. Both
	stainless steel and aluminium surfaces must be passivated (formation of a protective film by chemical
	treatment) before use.
	May attack or ignite some forms of plastics, rubber, or coatings.
Storage Regulations	Refer Australian Standard AS 4326-1995 'The storage and handling of oxidizing agents'. Refer
otorage negatations	Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.
Recommended	Aluminium 99.5 %; stainless steel 304L/316L; glass; approved grades of HDPE.
Materials	· · · · · · · · · · · · · · · · · · ·
	rols/personal protection
Occupational	Name STEL TWA
exposure limit	
values	

ues						
		<u>mg/m3</u>	ppm	<u>mg/m3</u>	<u>ppm</u>	Footnote
	Hydrogen peroxide			1.4	1	



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Infosafe No™	3CHGV	Issue Date : August 2019	RE-ISSUED by CHEMSUPP
Product Name : I	ame : HYDROGEN PEROXIDE 30% w/w		
		Classified as hazardous	
Other Exposure Information	hazards. All atmosphe workplace exposure s concentrations of che A time weighted avera 1.4 mg/m <sup>3</sup> , (1 ppm). T	micals. They are not a measure of rela age (TWA) has been established for H The exposure value at the TWA is the a ulated over a normal 8 hour working da	s low a level as is workable. These ividing lines between safe and dangerous ative toxicity. ydrogen peroxide (Safe Work Australia) of average airborne concentration of a particular
Appropriate	In industrial situations	s maintain the concentrations values be	elow the TWA. This may be achieved by
engineering controls			ring substances at the source, or other
Respiratory Protection	Where ventilation is r mists. Select and use selected in accordance Devices. When mists recommended: Appro-		y be required. Avoid breathing vapours or 16 - Respiratory Protective Devices and be Anintenance of Respiratory Protective dards then the use of the following is
Eye Protection			s with side shield protection as appropriate.
Hand Protection	Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.		
Personal Protective Equipment	Personal protective e when all other reason	quipment should not solely be relied up hably practicable control measures do r g personal protective equipment can be	oon to control risk and should only be used not eliminate or sufficiently minimise risk. e obtained from Australian, Australian/New
Footwear	Safety boots in indust	trial situations is advisory, foot protection	
Body Protection	Clean clothing or prot		and use. ng for protection against chemicals should lous Chemicals. Recommendation: PVC
Hygiene Measures	Always wash hands b	before smoking, eating or using the toile before storing or re-using.	et. Wash contaminated clothing and other
9. Physical and c	hemical propertie	es	
Form	Liquid		
Appearance	Clear, colourless liqui		
Odour	Odourless to slightly a	acrid odour, resembling that of ozone.	
Decomposition Temperature Melting Point	(> 50%); l00 °C in 25	erating decomposition temperature (SA kg package (SADT (35%)); 80 °C in I r °C (30%); -33 °C (35%); -41 °C (40 %	
Boiling Point Solubility in Water	103.6 °C (20%); 106. 1013 hPa (decompos Miscible in all proport	ses) (50%).	mposes) (35 %); 110 °C (40 %); 114 °C at
-	Soluble in all proporti	ons in many polar solvents, e.g. low m	olecular weight alcohols, glycols and

Solvents ketones; insoluble in petroleum ether (>20%). (Note: Concentrated hydrogen peroxide solutions can react explosively with these solvents.) Soluble in diethyl ether (>50%).

 Specific Gravity
 1.07 @ 20 °C/4 °C (20%); 1.11 @ 20 °C/4 °C (31%); 1.132 at 20 °C (35 %); 1.15 (40 %); 1.195 at 20 °C (50 %).

 pH
 3.3 (30 %); 4.6 (35 %), 4.3 (50 %) (Note: The pH of commercial solutions can be affected by the type

3.3 (30 %); 4.6 (35 %), 4.3 (50 %) (Note: The pH of commercial solutions can be affected by the type and amount of stabilizers added, and many times the pH is purposely adjusted to a grade specification range).

Vapour PressurePartial vapour pressure = ca. 0.48 hPa at 30 °C (H202), Total vapour pressure = 30.70 hPa (water +<br/>H202) (35 %); Partial vapour pressure = ca. 0.99 hPa at 30 °C (H202), Total vapour pressure = 24.00<br/>hPa (water + H202) (50 %).Vapour Density1.17 (30 %); 1 (50 %).

(Air=1) Volatile Component 100 %vol @ 21 °C

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Product Name :	HYDROGEN I	PEROXIDE 30% w/w	
		Classified as hazardous	
	: Log P(oct) = -0.	70 to -1.33 (estimated); - 1.1 (30%).	
n-octanol/water Surface Tension	75.6 mN/m (75.	6 dynes/cm) at 20 °C (50%).	
Flammability Explosion Properties Molecular Weight	Not combustible, but concentrated material is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Liberates oxygen - sustains fires. Explosive decomposition may occur under fire conditions. Contact with combustible materials may cause explosion. Can react violently or explosively with many chemicals. Some substances that do not normally burn in air will explode upon contact with hydrogen peroxide. May form explosive peroxides. Closed containers may rupture violently due to rapid decomposition, if exposed to fire or excessive heat for a sufficient period of time, or if contaminated with certain metals or dirt. 34.01 (H2O2)		
Oxidising Properties	. ,		
Kinematic Viscosity	0.98 mm²/s (0.9	8 centistokes) at 20 °C (35% or 50%).	
Dynamic Viscosity	1.11 mPa.s (1.11 centipoise) (35%); 1.17 mPa.s at 20 °C (50%).		
Saturated Vapour Concentration	500 ppm at 30 °C (35%); 500 ppm (50%).		
Other Information	Critical Tempera Critical Pressure Dipole moment: Acidity: Weak a Taste: Slight aci Dissociation Co Henry's Law = 7	cid; pKa = 11.75 at 20 °C (Ka = 1.78 x 10(-12) at	

## 10. Stability and reactivity

10. Stability and i	reactivity
Chemical Stability	Stable under recommended storage conditions. It may contain a stabilizer; product usually stabilized by addition of acetanilide or similar organic materials. Solutions of hydrogen peroxide gradually deteriorate,
	even when stabilized (relatively stable sample of hydrogen peroxide typically decomposes at the rate of
	about 0.5%/year at room temperature) to release molecular oxygen, water and heat. Unstable upon
	standing or upon repeated agitation, undergoes accelerated decomposition when exposed to light or
	when in contact with rough surfaces, many oxidizing or reducing substances or contaminated with heavy metals, rust, or dirt, and decomposes suddenly with alkalies, finely divided metals or when heated.
	Stability is reduced when pH is above 4.0 (the optimum pH is 3.5-4.5); the presence mineral acids of
	renders it more stable.
<b>Conditions to Avoid</b>	Organic materials plus mechanical shock, light, ignition sources, dust generation, heat, combustible
	materials, reducing agents, alkaline materials, strong oxidants, rust, dust, pH > 4.0, contamination,
	depletion of stabilizers, lack of vents and incompatible materials.
Incompatible Materials	Nitric acid (more than 50%) or sulfuric acid, strong bases (e.g potassium hydroxide or sodium hydroxide), metals (powdered or metal surfaces, e.g. osmium, palladium, platinum, iridium, gold, silver,
Materials	manganese, cobalt, copper, lead, potassium, sodium, lithium, iron, brass, bronze, chromium, zinc,
	nickel, magnesium), metal oxides (e.g. cobalt oxide, iron oxide, lead oxide, lead hydroxide, manganese
	oxide), metal sulfides, metal salts (e.g. calcium permanganate, salts of iron, copper, chromium,
	vanadium, tungsten, molybdeum, and platinum), or iodates, reducing agents (e.g. metal hydrides),
	organic materials (e.g. carboxylic acids and anhydrides, nitrogen-containing bases, aldehydes, ketones,
	ethers (dioxane, furfuran, tetrahydrofuran), soluble fuels (acetone, alcohol, glycerol), charcoal, organic
	dust), flammable materials, combustible materials (e.g. wood, paper, cellulose, textiles, oil, grease), strong oxidizing agents (e.g. potassium permanganate), hydrazine, sodium carbonate, cyanides (e.g.
	potassium cyanide, sodium cyanide), urea, triethylamine, sodium borate, aniline, cyclopentadiene,
	glycerine, asbestos, mercurous chloride, sodium pyrophosphate, hexavalent chromium compounds,
	sodium fluoride, chlorosulfonic acid, hydrogen selenide, some forms of plastics, rubber, or coatings.
Hazardous	Oxygen, the release of other hazardous decomposition products is possible, hydrogen gas, water, heat,
Decomposition	steam. Decomposition continuously occurs even at a slow rate when the compound is inhibited.
Products	Undergram neverside activities (200/ every state) are strong existing events conclude of resetting
Possibility of	Hydrogen peroxide solutions (30% or greater) are strong oxidizing agents capable of reacting explosively with many substances. The degree of hazard associated with hydrogen peroxide depends on
nazaruous reactions	concentration. Some organic compounds react with hydrogen peroxide to form unstable peroxides.
	Contact with combustible materials (e.g. wood, paper, textiles, oil, grease) may cause spontaneous fire

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Product Name : HYDROGEN PEROXIDE 30% w/w Classified as hazardous

cause explos acid ca nitroge sponta metal Reacti plastic contac admixt Hazardous Will no Polymerization	losion. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may fire. Reaction with strong bases (e.g. potassium hydroxide or sodium hydroxide) may be violently sive. Mixtures with 35% and above hydrogen peroxide with nitric acid (more than 50%) or sulfuric an explode violently. Contact with organic compounds (e.g. carboxylic acids and anhydrides, en-containing bases, aldehydes, ketones, ethers, alcohols, charcoal, organic dust) may result in aneous combustion, violent decomposition and/or explosion. Contact with metals (powdered or surfaces), metal oxides, metal sulfides, metal salts, or iodates may cause violent decomposition. ion with reducing agents (e.g. metal hydrides) may be violent. May attack or ignite some forms of es, rubber, or coatings. Very concentrated hydrogen peroxide may react explosively when in ct with potassium permanganate. Soluble fuels (acetone, ethanol, glycerol) will detonate on ture with peroxide of over 30% concentration, the violence increasing with concentration. ot occur.
	mation
gastro hyperr swallo stoma with bl coma, cells, t	ul if swallowed. Ingestion of concentrated solutions (greater than 20%) causes irritation of the bintestinal and respiratory tract, with sharp pains in the abdominal pain, nausea, vomiting, motility and diarrhoea, and may cause corrosive injury to the mouth and throat, difficulty in wing, foaming at the mouth, oedema (bleeding) of the throat with obstruction of air passages, ch distension (due to rapid liberation of oxygen), and perforation of the oesophagus and stomach, leeding of the stomach and ulcer formation, belching, peritonitis, convulsions, pulmonary oedema, spastic paralysis with or without sensory change, haemorrhage and damage to the red blood temporary unconsciousness and fever, possible cerebral swelling (fluid on the brain), and death. tion is not a typical route of occupational exposure.
Inhalation Hydrog of vap mucou such a nause nervou cases,	gen peroxide does not readily form a vapour at room temperature. If heated or misted, inhalation ours or mist is highly irritating to the nose, throat, lungs, and respiratory tract, and may burn the us membrane of the nose and throat, causing ulceration of nasal tissue, and respiratory effects as throat pain, inflammation, lacrimation, coughing, wheezing, laryngitis, shortness of breath, a and vomiting. May affect behaviour/central nervous system (insomnia, headache, ataxia, us tremors with numb extremities) and blood (cyanosis) and cause chemical pneumonia. In severe , respiratory effects may include acute lung damage, bronchitis, delayed pulmonary oedema (fluid gs), unconsciousness and death.
Skin Solutio Corros depen erythe observ papule comple	by one of 50% are severely irritating and corrosive respectively, based on animal information. sive materials are capable of producing severe burns, blisters, ulcers and permanent scarring, ading on the concentration of the solution and the duration of contact. May cause discolouration, area (redness), swelling of tissue, and pain. Transient whitening or bleaching of the skin has been ved in humans following contact with dilute solutions. Solutions over 30% may easily cause es and vesicles (blisters). A limited human study showed a severe reaction to 35% that healed etely. Prolonged contact (e.g. 24-hours) can cause moderate to severe irritation and possible rate to severe burns. Non-permeator into skin.
Eye Contac inform blindno pain, r oedem	ct with solutions of 20% and greater is irritating and corrosive to eyes, based on animal nation. Can cause severe eye burns, and permanent eye lesions, including corneal damage and ess, depending on the concentration of the solutions and duration of contact. Symptoms include redness, blurred vision, superficial clouding, lacrimation, swelling of the eyelids and corneal na. Vapour may cause irritation. No human information was located for hydrogen peroxide ons of 20% and greater.
Carcinogenicity Hydrog	gen peroxide [7722-84-1] is evaluated in the IARC Monographs (Vol. 36, Suppl. 7, Vol. 71; 1999) pup 3: Not classifiable as to carcinogenicity to humans.
Chronic Effects Repeat to freq nose b centra mouth buccal irritatio or inte	ated or prolonged exposure to spray mist may produce throat and respiratory tract irritation leading uent attacks of bronchial infection. Repeated or prolonged exposure may produce sore throat, and pleeds. Prolonged ingestion causes damage to the gastrointestinal tract. May cause damage to the il nervous system (CNS), and blood. Repeated use of hydrogen peroxide topical solution as a wash or gargle may produce a condition known as 'hairy tongue' or may cause irritation of the I nucous membrane. Repeated or prolonged contact with spray mist may produce chronic eye on and severe skin irritation. Prolonged or repeated skin contact may cause dermatitis. Prolonged ense skin contact or splashes in the eyes may cause corneal damage and severe injury. Chronic ure to vapour produces eye irritation and gradual bleaching of their hair.
Mutagenicity It is no in cultu	or possible to conclude that hydrogen peroxide is mutagenic. Positive results have been obtained ured humans cells. Negative results have been obtained in relevant studies using live animals. we results have been obtained in short-term mutagenicity tests.

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**RE-ISSUED by CHEMSUPP** Infosafe No™ 3CHGV Issue Date : August 2019 **HYDROGEN PEROXIDE 30% w/w** Product Name : Classified as hazardous No ecological problems are to be expected when the product is handled and used with due care and Ecological attention. Information Ecotoxicity When used properly, no impairments in the function of waste-water-treatment plants are to be expected. Toxic for aquatic organisms. In high concentrations: Toxic effect on fish and plankton. Persistence and Readily biodegradable. Decomposition products: water and oxygen. Abiotic degradation: degradability - Air. indirect photo-oxidation. t 1/2 from 16 - 20 h. sensitizer: OH radicals:

<ul> <li>water, redox reaction,</li> </ul>	t 1/2 from 25 -	100 h, mineral and	enzymatic catalysis, fresh water;

- water, redox reaction, t l/2 from 50 70 h, mineral and enzymatic catalysis, salt water;
  - Soil, redox reaction, t l/2 from 0.05 15 h, mineral catalysis.
- **Biodegradation:** - aerobic, t l/2 < 2 min, biological treatment sludge, Remarks: Readily biodegradable;
- aerobic, t l/2 from 0.3 5 d, fresh water, Remarks: Readily biodegradable;
- anaerobic, Remarks: not applicable.
- Air, Volatility, Henry's law constant (H) = 1 Pa.m<sup>3</sup>/mol @ 20 °C, Remarks: not significant.
  - Air, condensation on contact with water droplets, Remarks. rain washout;
- water, Remarks: The product evaporates slowly;
- Soil/sediments, Remarks: non-significant evaporation and adsorption.
- **Bioaccumulative** H202 does not accumulate in cells of living organisms. Potential
- Wear protective clothing made of chloroprene rubber, polyvinyl chloride, polyethylene etc. Keep **Other Precautions** combustible materials away from the area, maintain all equipment in a thoroughly clean condition. To avoid contamination do not return any unused peroxide to the container. Keep away from glycerin, hydrazine, alcohol, carbon, oil and resins Acute Toxicity - Fish C. carpio LC50: 42 mg/l /48 h; Pimephales promelas, LC50: 16.4 mg/l /96 h. Daphnia magna EC50: 7.7 mg/l /24 h. Acute Toxicity -
- Daphnia Acute Toxicity -Chlorella vulgaris IC50: 2.5 mg/l /72 h. Algae Acute Toxicity -Crustaceans, EC50: 2.4 mg/l /48 h. **Other Organisms** Sewage Treatment Effects on waste water treatment plants, Inhibitor > 30 mg/l, Remarks: inhibitory action.

### 13. Disposal considerations

Disposal Considerations

Mobility

Dispose of according to relevant local, state and federal government regulations.

### 14 Transport information

14. Transport into	ormation
Transport Information	Dangerous Goods of Class 5.1 Oxidising Agents are incompatible in a placard load with any of the following: - Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and combustible liquids.
U.N. Number	2014
UN proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Transport hazard class(es)	5.1
Sub.Risk	8
Hazchem Code	2P
Packaging Method	3.8.5.1RT7,RT8
Packing Group	II
EPG Number	5.1.005
IERG Number	31

### 15. Regulatory information

Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation Regulatory 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Information

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Product Name :	: HYDROGEN PEROXIDE 30% w/w								
Classified as hazardous									
Poisons Schedule	S6								
Hazard Category	Harmful,Corrosive,Oxidising								
16. Other Inform	nation								
Literature References	<ul> <li>'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</li> <li>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</li> <li>Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.</li> <li>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.</li> <li>Safe Work Australia, 'Hazardous Chemical Information System, 2005'.</li> <li>Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.</li> <li>Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.</li> </ul>								
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Safety Data Sheet

### Empirical Formula & H2O2 **Structural Formula**

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