



Infosafe No™	1CH7Z	Issue Date : October 2015	RE-ISSUED by CHEMSUPP
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Product Name : **HYDROGEN PEROXIDE 6%**

Classified as hazardous

1. Identification

GHS Product Identifier	HYDROGEN PEROXIDE 6%		
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 Fax: (08) 8440-2001		
Recommended use of the chemical and restrictions on use	Bleaching wood pulp, textiles, feathers, hair, fur, silk, straw, ivory, flour, bone and gelatin, renovating paintings and engravings, oxidiser in the manufacture of dyes, disinfecting water and hides, artificially aging wines and liquors, refining oils and fats, antichlor, photography, electroplating, cleaning metals, seed disinfectant, mouth washes, sanitary lotions, dentrifices, pharmaceuticals, plasticizers, antiseptic and laboratory reagent.		
Other Names	<u>Name</u>		<u>Product Code</u>
	HYDROGEN PEROXIDE 6% LR		HL002
Other Information	Hydrogen dioxide, Peroxide EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.		

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 Identification

GHS classification of the substance/mixture	Eye Damage/Irritation: Category 2A
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye irritation.
Pictogram (s)	Exclamation mark



Precautionary statement – Prevention	P264 Wash thoroughly after handling. P280 Wear protective eye protection/face protection.
Precautionary statement – 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 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Water	7732-18-5	93.5-94.5 %		
	Hydrogen peroxide	7722-84-1	5.5-6.5 %	C, O	R34, R8
Other Information	May contain stabiliser.				



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4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek medical attention.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient. If swallowed, large amounts of oxygen may be released quickly. The distention of the stomach or esophagus may be injurious. Insertion of a gastric tube may be advisable.
Other Information	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 measures

Hazards from Combustion Products	May liberate toxic fumes such as oxygen gas.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Heating causes decomposition which liberates oxygen gas. Runoff may pollute waterways.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

7. Handling and storage

Precautions for Safe Handling	Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Unsuitable working materials include various metals.
Conditions for safe storage, including any incompatibilities	Store in cool place and out of direct sunlight. Keep containers securely sealed and protected against physical damage. Keep out of reach of children. Do not reuse empty containers. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid). Keep in a well-ventilated place. Store away from combustible materials. Store below +25 °C. Long term storage not recommended.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Hydrogen peroxide			1.4	1	
Other Exposure Information	A time weighted average (TWA) has been established for hydrogen peroxide (Safe Work Australia) of 1.4 mg/m ³ , (1 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.					
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be					



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Eye Protection	selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
Hand Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Personal Protective Equipment	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Butyl rubber gloves
Footwear	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Body Protection	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. Recommendation: Rubber boots.
Hygiene Measures	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Colourless liquid.
Odour	Weak pungent to odourless.
Solubility in Water	Miscible.
Solubility in Organic Solvents	Soluble in alcohol.
Specific Gravity	1.02
Flammability	Non combustible material. Liberates oxygen - sustains fires.
Molecular Weight	34.01

10. Stability and reactivity

Chemical Stability	Breaks down in sunlight, unstable with heat or contamination. Liberation of oxygen gas. Strong oxidizing agent. Reacts with other chemicals. Prolonged contact with metals may cause pitting or decolouration. Use extreme caution when attempting any reactions because of fire and explosion potential. Conduct initial experiments in small scale and protect personnel appropriately as reactions are unpredictable and may be delayed.
Conditions to Avoid	Sunlight (decomposes), heat.
Incompatible Materials	Albumin, alkalis, alkali metals, alkali salts, alkali hydroxides, alkaline earth metals, metals, metals in powder form, metallic oxides, metallic salts, ferrous salts, mercurous salts, gold salts, nonmetals, nonmetallic oxides, aldehydes, alcohols, amines, ammonia and their carbonates, hydrazine and derivatives, hydrides, combustible substances, ethers, acids, anhydrides, oxidizing agents, organic substances, peroxi compounds, impurities/dust, permanganates, organic solvents, organic nitro compounds, brass, balsam Peru, phenol, charcoal, chlorides, alkali citrates, hypophosphites, iodides, lime water, permanganates, sulfites and tinctures. May liberate toxic fumes such as oxygen gas.
Hazardous Decomposition Products	
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 376 mg/kg (90% solution)
Acute Toxicity - Dermal	LD50 (rabbit): > 2000 mg/kg (90% solution).
Acute Toxicity - Inhalation	LC50 (rat): 2000 mg/m ³ /4 h (90% solution).
Ingestion	May cause irritation to the mucous membranes of the mouth, pharynx, oesophagus and gastrointestinal tract with upper abdominal pain, 'heartburn', nausea, vomiting, and diarrhea. 'Coffee grounds' vomitus and 'black tarry' stools may occur as a result of gastrointestinal bleeding. After absorption of large quantities there is a risk of perforation in the oesophagus and stomach. Gross over exposure by



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Inhalation	ingestion may be fatal. Vapour may cause irritation to the nose, throat and upper respiratory tract, nausea and headache, possible difficulty in breathing and shortness of breath.
Skin	Irritating to skin. Contact may result in drying, rash, discomfort and bleaching of the skin and hair.
Eye	Irritating to eyes. Splashes in the eye can cause severe eye damage with ulceration of the cornea, and may cause eye damage.
Carcinogenicity	Hydrogen peroxide [7722-84-1] is evaluated in the IARC Monographs (Vol. 36, Suppl. 7, Vol. 71; 1999) as Group 3: Not classifiable as to carcinogenicity to humans.
Health Hazard	Gross overexposure may cause red blood cell destruction, or gas embolism.
Chronic Effects	Potential symptoms of overexposure are irritation of eyes, nose, throat and skin, corneal ulceration, erythema, vesicles on skin and bleaching of hair.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	Toxic for aquatic organisms. When used properly, no impairments in the function of waste-water-treatment plants are to be expected.
Persistence and degradability	Readily biodegradable. Dcomposition products: water and oxygen.
Mobility	Water solubility therefore may spread in water systems, highly mobile in soils.
Bioaccumulative Potential	Unlikely.
Other Adverse Effects	In high concentrations: Toxic effect on fish and plankton.
Environmental Protection	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	LC50(C. carpio): 42 mg/l/48 h (30% solution).
Acute Toxicity - Daphnia	EC50 (Daphnia magna): 7.7 mg/l/24 h (30% solution).
Acute Toxicity - Algae	CI50 (Chlorella vulgaris): 2.5 mg/l/72 h (30% solution).

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Hydrogen peroxide: Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule	S5

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
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chem-supply

Safety Data Sheet

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**Contact
Person/Point**

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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**Empirical Formula &
Structural Formula**

H₂O₂

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