

Section 1: Identification of the Substance/Mixture and of Supplier

Product name **HYDROGEN PEROXIDE (50%)**

Recommended use: As a commercial laundry bleaching agent and sanitizer

Supplier: Space Industries Limited

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Wiri, Auckland
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Emergency Telephone 0800 764 766 (all hours)

Date of preparation: 11 April 2017

Section 2: Hazards Identification



HSNO Classification: Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Hazard Classification: Subclass 5.1.1 Category B (Oxidising Substances that are solids or liquids: medium hazard) - Oxidising Substances.
Subclass 6.1 Category D - Substances which are acutely toxic.
Subclass 6.9 Category B - Substances that are harmful to human target organs or systems.
Subclass 8.2 Category B - Substances that are corrosive to dermal tissue.
Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.
Subclass 9.1 Category D - Substances that are slightly harmful to the aquatic environment.
Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

Section 3: Composition/information on ingredients

Product Description: Liquid, Colourless

Components Hydrogen peroxide

CAS Number 7722-84-1

Proportion 20-60%

Risk Phrases R8, R22, R34,

Section 4: First Aid Measures

Show this Safety Data Sheet to a Doctor

Inhalation:	Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.
Skin Contact:	If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.
Eye Contact:	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.
Ingestion:	Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Immediately give a glass of water. Seek immediate medical assistance.
Notes to Doctor:	Treat symptomatically. Can cause corneal burns.

For advice, contact the Poisons Information Centre 0800 764 766 or a doctor

Section 5: Fire Fighting Measures

Specific Hazards:	Oxidizing substance. Non combustible, but will support combustion of other materials.
Suitable Extinguishing Media:	Not combustible, however, if material is involved in a fire use: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).
Fire-fighting advice:	Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition

Section 6: Accidental Release Measures

Clear area of all unprotected personnel. If enough water is available dilute to <3%, flood area with water and drain to an approved chemical sewer or wastewater treatment system, including municipal sewers if approved. If only limited water is available (not enough to dilute spill to 3% concentration), use water for potential fire fighting of combustible materials. Contain spill until decomposition is completed naturally. If contamination of sewers or waterways has occurred advise local emergency services
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Section 7: Handling and Storage

Handling/storage:	Avoid skin and eye contact and breathing in vapour, mists and aerosols.
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Storage advice:	Keep out of reach of children. Do not return unused product to original container. Store in cool place and out of direct sunlight. Store away from incompatible materials - acids , reducing agents , alkalis , heavy metals and their salts, dust, enzymes, combustible material, organic chemicals, cyanides, dirt, rust and hexavalent chromium compounds . Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.
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Section 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:	No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH).
Engineering Control Measures:	Use in a well ventilated area. Wear full protective clothing to avoid splashes. As product can cause eye irritation, safety glasses or goggles must be worn. The use of rubber gloves is recommended. Wash contaminated clothing and other protective equipment before storage or re-use
Personal Protective Equipment:	Protective equipment must be worn. PVC gloves, waterproof apron, safety boots and full face shield. Avoid breathing dust or vapours.

Section 9: Physical and Chemical Properties

Physical state:	Clear Liquid
Colour:	Colourless
Odour:	Sharp
Solubility:	Miscible with water.
Specific Gravity:	1.07-1.24 @20°C
Relative Vapour Density (air=1):	Not available
Vapour Pressure (20 °C):	14-29 Torr @30°C
Flash Point (°C):	Not applicable
Flammability Limits (%):	Not applicable
Autoignition Temperature (°C):	Not applicable
Boiling Point/Range (°C):	104-119
pH:	1-4
Evaporation Rate:	>1 (Butyl acetate = 1)
Freezing Point/Range (°C):	-14 to -56

Section 10: Stability and Reactivity

Stability:	Powerful oxidising agent.
Incompatible materials:	Incompatible with acids, reducing agents, alkalis, heavy metals and their salts, dust, enzymes, combustible material, organic chemicals, cyanides, dirt, rust and hexavalent chromium compounds .

Section 11: Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract. Decomposition may occur in the stomach leading to the production of oxygen gas. This may cause distension of the stomach and the possibility of some bleeding. Death may occur if large amounts are ingested.
Eye contact:	A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.
Skin contact:	Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
Inhalation:	Breathing in mists or aerosols may produce respiratory irritation.
Long Term Effects:	Available evidence from animal studies indicates that repeated or prolonged exposure to this material could result in effects on the lungs.
Toxicity:	Oral LD50 (rat): 910 mg/kg.

Section 12: Ecological Information

Environmental fate, persistence and degradation:	Prevent, by any means available, spillage from entering drains or water courses. DO NOT discharge into sewer or waterways. Avoid contaminating waterways.
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Section 13: Disposal Considerations

Dispose of material through a licensed waste contractor. When diluted, will naturally decompose to water and oxygen. Decontamination and destruction of containers should be considered.
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Section 14: Transport Information

Road and Rail Transport:	Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land.
UN No:	2014
Class-primary	5.1 Oxidizing Agent
Subrisk 1:	8 Corrosive
Packing Group:	II
Proper Shipping Name:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Hazchem Code:	2P
Marine Transport:	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS
UN No:	2014
Class-primary	8
Packing Group:	II
Proper Shipping Name:	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Air Transport:	TRANSPORT PROHIBITED under the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air in passenger aircraft and cargo aircraft.

Section 15: Regulatory Information

HSNO Classification:	Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard)
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Hazard Classifications:	Regulations 2001. Subclass 5.1.1 Category B (Oxidising Substances that are solids or liquids: medium hazard) - Oxidising Substances. Subclass 6.1 Category D - Substances which are acutely toxic. Subclass 6.9 Category B - Substances that are harmful to human target organs or systems. Subclass 8.2 Category B - Substances that are corrosive to dermal tissue. Subclass 8.3 Category A - Substances that are corrosive to ocular tissue. Subclass 9.1 Category D - Substances that are slightly harmful to the aquatic environment Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.
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Section 16: Other Information

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Note: All information given by Space Industries Ltd is offered in good faith and is, to the best of our knowledge, true and accurate. However, since conditions of use are beyond our control, all information relevant to usage is offered without warranty or guarantee and should not be construed as a representation that the product is suitable for any particular purpose or application.