SAFETY DATA SHEET

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name:	**Hydrogen Peroxide 35%**
Recommended	Bleaching Agent, Sanitiser
Supplier:	Hygiene Technologies Ltd
Street Address:	28 Rangitane Rd Whakatu, Hastings 4172 New Zealand
Telephone:	+ 64 6 876 4111 or 0800 732 525
Emergency Telephone number:	National Poisons Centre (24/7) **0800 POISON** (0800 764 766)

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.



Signal Word

DANGER

Hazard Classifications

Oxidising Liquids – Category 2
Acute Oral Toxicity - Category 4
Skin Corrosion - Category 1B
Eye Damage - Category 1
Specific Target Organ Toxicity (Repeated Exposure) - Category 2

Hazard Statements

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.

Prevention Precautionary Statements

P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokin
P220 Keep away from clothing and other combustible materials.

P280	Wear protective clothing, gloves, eye/face protection and suitable respirator.
P264	Wash hands, face and all exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe mists, vapours or spray.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor/physician.
P332+P313	If skin irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

Storage Precautionary Statement

P405	Store locked up.

Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS No.	PROPORTION
Hydrogen peroxide (H_2O_2)	7722-84-1	35% (w/w)
Ingredients determined to be Non-Hazardous	-	Balance

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone New Zealand 0800 764 766).

Swallowed

Rinse mouth with water. If swallowed, do **NOT** induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious person. If vomiting occurs give further water. Immediately call Poisons Centre or doctor.

Eye Contact

Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor, or for 15 minutes and transport to doctor or hospital. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Inhaled	Remove person from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered.
PPE for First Aiders	Wear safety shoes, overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Notes to physician	Treat symptomatically. Can cause corneal burns.

5. FIRE FIGHTING MEASURES

Specific Hazard	May intensify fire; oxidiser
Suitable Extinguishing Media	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Fire fighting further advice	On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.
HAZCHEM	2P

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with non-combustible absorbent. Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: 31

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Division 5.1 Oxidising Substance, Class 8 Corrosive as per the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

As published by WorkSafe New Zealand.

	TWA		STEL		NOTICES
	ppm	mg/m³	ppm	mg/m³	
Hydrogen Peroxide	1	1.4			

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted average exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time- weighted average exposures apply. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well-ventilated areas.

Use with local exhaust ventilation or while wearing an appropriate respirator.

Personal Protective Equipment:

SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.
Wear safety shoes, overalls, gloves (butyl, natural or nitrile rubber, neoprene, PVA or PVC recommended), chemical goggles and respirator. Use with adequate ventilation. If inhalation risk exists, wear air-supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless
Form	Liquid
Odour	Pungent, aromatic
pH	2.0 - 4.0
Melting Point	- 26ºC
Boiling Point / Range (°C)	106ºC
Flash Point (°C)	Not Applicable
Flammability	Not Applicable
Explosive limits	Not Applicable
Vapour Pressure	1.8 kPa @ 20ºC
Vapour Density	Not Applicable
Specific Gravity	1.11 g/cm^3
Solubility	Soluble in water
Partition Coefficient	Not Available
Auto-ignition Temp	Not Applicable
Decomposition temp	Not Available
Viscosity	1.17 mPas @ 20ºC
SADT	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability:	This material is thermally stable when stored and used as directed.
Conditions to Avoid:	Heat, hot surfaces, sparks, open flames and other ignition sources
Incompatible Materials:	Combustible and inorganic materials
Hazardous Decomposition Products:	Oxygen
Hazardous Reactions	Product is a strong oxidising agent and reactive. Commercial products are stabilised to reduce risk of decomposition due to contamination. Danger of decomposition if exposed to heat. When coming into contact with the product, impurities, decomposition catalysts, incompatible substances or combustible substances may lead to self-accelerated, exothermic decomposition and the formation of oxygen. Risk of over pressure and bursting due to decomposition in confined spaces and pipes. Release of oxygen may support combustion. Mixtures with organic materials (e.g., solvents) can display explosive properties.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

No data available on final product. Information based on ingredients

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS

Ingestion	Harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Inhalation	Material may be irritating to mucous membranes and the respiratory tract.
Skin Contact	Contact with skin will result in severe irritation. Corrosive to skin -may cause severe skin burns.
Eye Contact	A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.

ACUTE TOXICITY

Inhalation	This material has been classified as non-hazardous.
Skin Contact	This material has been classified as Skin Corrosion - Category 1B. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw
Ingestion	This material has been classified as Acute Oral Toxicity - Category 4. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg bw
Corrosion / Irritancy	Eye: this material has been classified as Eye Damage - Category 1. Skin: this material has been classified as Skin Corrosion - Category 1B.
Sensitisation	sensitiser. Skin: this material has been classified as not a skin sensitiser.
Aspiration Hazard	This material has been classified as non-hazardous.
Specific Target Organ Toxicity (Single Exposure)	This material has been classified as non-hazardous.

CHRONIC TOXICITY

Mutagenicity	This material has been classified as non-hazardous.
Carcinogenicity	This material has been classified as non-hazardous.
Reproductive Toxicity (including via	This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

No data available on final product. Information based on ingredients.

Avoid contaminating waterways.

Acute aquatic hazard	This material has been classified as non-hazardous.
Long-Term Aquatic Hazard	This material has been classified as non-hazardous.
Ecotoxicity in the Soil Environment	This material has been classified as non-hazardous.
Ecotoxicity to terrestrial vertebrates	This material has been classified as Hazardous to Terrestrial Vertebrate

Ecotoxicity to terrestrial invertebrates	This material has been classified as non-hazardous.
Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Bioaccumulative Potential	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the "New Zealand NZS5433: Transport of Dangerous Goods on Land", International Maritime Dangerous Goods Code (IMDG Code) for transport by sea, and the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

ROAD AND RAIL TRANSPORT



UN Number:	2014
Proper Shipping Name:	HYRDROGEN PEROXIDE, AQUEOUS SOLUTION
Emergency Response Guide No.:	31
Dangerous Goods Class:	5.1
Packing Group:	II
HAZCHEM	2P

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), toxic gases (Class 2.3), flammable liquids (Class 3), flammable solids (Class 4.1), spontaneously combustible substances (Class 4.2), dangerous when wet substances (Class 4.3), organic peroxides (Class 5.2), radioactive substances (Class 7), corrosive substances (Class 8), fire risk substances or combustible liquids. Also note that fire risk substances including dangerous goods of Class 6 or Class 9 which are fire risk substances are incompatible with dangerous goods of Class 1, Class 5.1 and Class 5.2 Exemptions may apply.

MARINE TRANSPORT



UN Number:	2014
Proper Shipping Name:	HYRDROGEN PEROXIDE, AQUEOUS SOLUTION
Dangerous Goods Class:	5.1
Subsidiary Class:	8
Packing Group:	II

AIR TRANSPORT



UN Number:	2014
Proper Shipping Name:	HYRDROGEN PEROXIDE, AQUEOUS SOLUTION
Dangerous Goods Class:	5.1
Subsidiary Class:	8
Packing Group:	II

15. REGULATORY INFORMATION

EPA Group Standard: HSR001326 Oxidising Substance, Class 8 Corrosive

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

HSNO Controls Trigger Quantities:

Certified Handler	No
Secured Substance	Yes
Location Test Certificates	> 100 kg
Fire Extinguishers	> 50 kg
Signage	> 10 kg
Emergency Response Plans	> 100 kg
Secondary Containment	> 100 kg

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Residues arising from industrial waste disposal operations

16. OTHER INFORMATION

Date issued:	January 25, 2024
Version:	1.2
Replaces:	September 13, 2021
Date of Next review:	January 25, 2029

Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

End of Safety Data Sheet