

SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ADOXYSAN LA996

Synonyms: UN 3149, hydrogen peroxide solution and peracetic acid mixture

Use: Liquid sanitiser, cleaner, bleach.

Supplier: Advance Chemicals

ABN: 61 005 625 025

Street Address: 4 – 8 Malton Court, Altona, 3018

Telephone Number: (03) 9398 4444

Facsimile: (03) 9398 5278

Emergency Telephone: Ted Powell (03) 9398 4444 (Business Hours)
Ted Powell 0425 800 022 (After Hours)

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Hazard Classification: HAZARDOUS SUBSTANCE, DANGEROUS GOODS.

Classification of the substance or mixture:

Oxidising liquid – category 1

Acute toxicity – category 4

Skin corrosion – category 1A

Hazardous to the aquatic environment (acute) – category 1

Flammable liquid – category 3

SIGNAL WORD: DANGER



Hazard Statement(s):

H271 – May cause fire or explosion; strong oxidiser

H332 – Harmful if inhaled

H302 – Harmful if swallowed

H314 – Causes severe skin burns and eye damage

H400 – Very toxic to aquatic life

H226 – Flammable liquid and vapour

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Precautionary Statement(s):

Prevention:

- P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking
- P220 – Keep away from combustible materials
- P233 + P234 – Keep only in original container and tightly closed
- P280 - Wear protective gloves/eye protection/ face protection.
- P264 – Wash hands thoroughly after handling.
- P270 – Do not eat, drink or smoke when using this product.
- P261 – Avoid breathing fumes/mist/vapours/spray.
- P271 – Use only in well-ventilated areas.
- P242 – Use only non-sparking tools.
- P243 – Take precautionary measures against static discharge.

Response:

- P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330 – Rinse mouth with plenty of water.
- P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
- P363 – Wash contaminated clothing before reuse.
- P304 + P340 – IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Storage:

- P411 + P225 – Keep stored in a cool place.
- P410 – Protect from sunlight
- P420 – Store away from other materials.
- P405 – Store locked up

Disposal:

- P501 – Dispose of contents/containers according to local waste management regulations.

Poisons Schedule (Australia): 5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	Risk phrases
Hydrogen Peroxide	7722-84-1	10 - 30%	H271, H332, H302, H314
Peracetic Acid	79-21-0	Less than 10%	H400
Acetic Acid	64-19-7	Less than 10%	H226
Water	7732-18-5	To 100%	

4. FIRST AID MEASURES

Inhalation: Remove victim from 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. Seek medical advice.

Skin Contact: Remove contaminated clothing and wash skin thoroughly with plenty of water. Do NOT use any local applications. See a doctor if skin irritation occurs.

Eye Contact: Hold eyes open and flood with cold water for at least 15 minutes. Seek urgent medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth thoroughly with water. Repeat if vomiting occurs. If patient is unconscious do NOT give anything by mouth. Seek urgent medical attention.

Notes to Doctor: With eye contact exclude corneal ulceration; recheck up to one week for delayed ulceration. Refer to eye specialist. Pulmonary oedema may occur on inhalation. Ingestion may result in gastrointestinal bleeding or perforation. Following ingestion gastric distension may occur from rapid oxygen release. Insertion of a gastric tube may be advisable. Avoid gastric lavage. Emergency upper gastrointestinal endoscopy may be indicated. Ensure skin is thoroughly irrigated to remove all traces of hydrogen peroxide solution and thus avoid any possible reaction with locally applied medication. Such reactions will produce heat and lead to further tissue damage.

5. FIRE FIGHTING MEASURES

Specific Hazards: Hydrogen gas and oxygen bearing chemicals are fire stimulating. Containers may burst from excess heat, leading to a bigger and hotter fire. Contact with flammable materials may cause fire.

Fire fighting advice: Fire fighters wear full protective clothing with self contained breathing apparatus and gloves. In close proximity wear acid resistant oversuit.

Fire Extinguishing Media: Use water fog, water spray, CO₂, foam or dry agent.

Hazchem Code: 2W

Hazardous thermal decomposition products: Carbon dioxide, carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Wear full protective clothing to prevent skin and eye contact. Wear self contained breathing apparatus. Increase ventilation. Minor spills must be cleaned up quickly. For large spills, contain using sand or soil. Absorb using soil, vermiculite or some other inert material. Collect and seal in properly labelled containers for disposal. Refer to State Land and Waste Authority for disposal.

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7. HANDLING AND STORAGE

Handling advice: Use only in well ventilated areas. Keep away from heat, organic materials, and other incompatible materials.

Storage advice: Store in cool, well ventilated place out of direct sunlight. Transport and store upright with vent on top. Store away from other classifications of dangerous goods. Keep in a banded area. **NEVER MIX WITH ACCELERATORS OR PROMOTERS. DO NOT RETURN UNUSED MATERIAL TO ORIGINAL CONTAINER. USE ONLY APPROVED SUITABLE MATERIALS FOR INTERMEDIATE CONTAINERS.**

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical	TWA (ppm)	TWA (mg/m ³)	STEL (ppm)	STEL (mg/m ³)
Hydrogen peroxide	1	1.4	-	-
Acetic acid	10	25	15	37
Peracetic acid	-	-	-	-

Engineering Controls: Time Weighted Average will not normally be exceeded when used as directed. Provide adequate ventilation when using or handling this product.

Personal Protection Equipment: If engineering controls are not effective in controlling airborne exposure then a supplied air respirator must be used. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference can be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

The use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

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.

The use of plastic apron, sleeves, overalls, and rubber boots are recommended. Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless clear liquid with a pungent odour.

Boiling Point: 114°C

Melting Point: -52°C

Flash Point: Not applicable

Vapour Pressure: 18 mm Hg

Vapour Density (Air = 1): Not applicable

Flammability Limits: Not applicable

Specific Gravity: 1.13 @ 20°C

pH (1% solution): 2.5 – 3.5

Solubility in water: Soluble in all proportions.

Corrosiveness: Corrosive to human tissue.

10. STABILITY AND REACTIVITY

Stability: Oxidising agent. Decomposes very slowly at ambient temperatures to give off oxygen. Mildly corrosive to most metals and paints. Will react with peroxides, metal salts and reducing agents.

Incompatible with acidic compounds, reducing agents, transition metals and their compounds, accelerators and combustible materials.

11. TOXICOLOGICAL INFORMATION

Inhalation: LC₅₀ (rats – 4 hours), 4.08 mg/m³

No adverse health effects are expected if the product is handled in accordance with this material safety data sheet and label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Acute Health Effects:

Ingested: Causes burns to mouth, throat and gastrointestinal tract. May cause gastric distension due to evolution of oxygen.

Eye: Extremely irritating and lachrymatory. Prolonged contamination of eyes can result in destruction of corneal tissue.

Skin: Causes severe burns to the skin on prolonged contact, and transient whitening of the affected area.

Inhaled: Irritates the mucous membranes. Coughing, sore throat, nosebleeds, and chronic bronchitis are other results of inhalation of this product.

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Potential chronic health effects:

Eye Contact: Repeated or prolonged eye contact may cause loss of vision with symptoms including strong pain, tearing, and redness. Vapors may cause severe irritation or possible burns to the eyes with possible irreversible eye damage.

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity: No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Avoid contaminating the environment with concentrated material.

Avoid disposal to natural waterways with concentrated non-neutralized solutions.

Degradability: Aqueous solutions of this product are biodegradable.

Eco- toxicity: In a dilute, neutralized aqueous solution it is not expected to harm marine or aquatic life. Predominantly degrades to oxygen and hydrogen.

13. DISPOSAL CONSIDERATIONS

Small quantities may be diluted with plenty of water and flushed to sewer. Refer to Waste Management Authority for large quantities. Clean containers with water, which can be flushed down into sewers with plenty of water. Do NOT rinse dedicated containers.

14. TRANSPORT INFORMATION

UN Number: 3149

Proper Shipping Name: HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE with acid(s), water and not more than 5% peroxyacetic acid, STABILIZED

Dangerous Goods Class: 5.1

Subsidiary risk: 8

Packing Group: II

Transport:

ROAD AND RAIL: Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code). This product must not be loaded or packed with other classifications of dangerous goods.



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SEA: Classified as Dangerous Goods according to the International Maritime Dangerous Goods Code (IMDG Code).

This product must not be loaded or packed with other classifications of dangerous goods.

15. REGULATORY INFORMATION

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Poisons Schedule: 5

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16. OTHER INFORMATION

This S.D.S. is valid for 5 years from the date of issue but may be withdrawn and revised anytime prior to that date. Please ensure that you are using the latest issue.

All information contained in this Safety Data Sheet is as accurate and up-to-date as possible. Since ADVANCE CHEMICALS cannot anticipate or control the conditions under which this information can be used, each user must review this information in the specific context of the intended application.

ADVANCE CHEMICALS will not be responsible for any damage or loss of any nature resulting from the use of or reliance upon this information. No expressed or implied warranties are given other than those mandated by Commonwealth, State or Territory legislation.

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