SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **ADOXYSAN N14**
Synonyms: UN 3098, 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

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 3
Organic peroxides – Type F
Acute toxicity (ORAL) – Category 3
Skin Corrosion - Category1A
Serious eye damage – Category 1

SIGNAL WORD: DANGER

Hazard Statement(s):
H272 – May intensify fire; oxidiser
H242 – Heating may cause fire
H301 – Toxic if swallowed
H314 – Causes severe skin burns and eye damage

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 caustiously 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
Hydrogen Peroxide	7722-84-1	10 - 30%
Peracetic Acid	79-21-0	10 - 30%
Acetic Acid	64-19-7	10 - 30%

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, CO_2, 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.

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 bunded 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: > 100ºC
Melting Point: Not known
Flash Point: 96C
Vapour Pressure: Not Known
Vapour Density (Air = 1): Not Known
Flammability Limits: Not Known
Specific Gravity: 1.12 @ 20ºC
pH (1% solution): 3
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: LC_{50} (rats – 4 hours), 2 kg/m^3
LC_{Lo} (mice), 227 ppm.

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 manhandled 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.

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 and natural waterways with concentrated material. Aqueous solutions of this product are biodegradable. A dilute, neutralized aqueous solution is not expected to harm aquatic life. Product degrades to acetic acid, water, oxygen, and hydrogen.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority.

14. TRANSPORT INFORMATION

UN Number: 3098

Proper Shipping Name: Oxidising liquid, Corrosive, N.O.S. (Hydrogen peroxide solution, Peracetic acid)

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.

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: 6

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.

Issue Date: June, 2022