

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ADOXY 35% LN844FG

**Synonyms:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION;

**Use:** Oxidising agent and bleach for food applications.

**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)

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 3<sup>rd</sup> 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

**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

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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
- P221 – Take any precaution to avoid mixing with combustibles.
- P283 – Wear fire/flame resistant/retardant clothing.
- 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
- P260 – Do not breathe mist

### Response:

- P306 + P360 – IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothing.
- P371 + P380 + P375 – In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
- P370 + P378 – In case of fire: use water, water spray, CO<sub>2</sub> for extinction.
- P301 + P312 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330 – Rinse mouth with plenty of water.
- 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 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P301 +P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 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.

Poison Schedule (Australia): 6

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	C.A.S. No.	Proportion	Risk phrases
Hydrogen Peroxide	7722-84-1	30 – 60 %	R8, R34
Stabilisers	-	< 1%	
Water	7732-18-5	30 – 60 %	

## 4. FIRST AID MEASURES

**Advice:** For advice, contact Poisons Information Centre, phone 131126, or call a doctor.

**Inhalation:** Remove to fresh air. If rapid recovery does not occur, seek medical attention.

**Skin Contact:** Remove contaminated clothing. Wash off with plenty of water. Keep patient warm and in a quiet place. Seek medical attention.

**Eye Contact:** Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Seek medical attention.

**Ingestion:** If swallowed, rinse mouth with water (only if person is conscious). Do NOT induce vomiting. If victim is unconscious but breathing artificial respiration may be necessary. Seek medical attention.

**Notes to Doctor:** Therapy as for a chemical burn. Formation of toxic lung edema is possible. Do NOT administer activated charcoal.

## 5. FIRE FIGHTING MEASURES

**Specific Hazards:** Oxygen released in thermal decomposition may support combustion. Contact with combustible material may cause fire. Contact with flammables may cause fire or explosions. Risk of explosion if heated under confinement.

**Fire fighting advice:** Evacuate personnel to safe areas. In event of fire, wear self contained breathing apparatus. When in close proximity wear acid resistant over suit. Clean contaminated surface thoroughly.

**Fire Extinguishing Media:** Water, water spray, CO<sub>2</sub>.

**Hazchem Code:** 2P

**Flammability:** Not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

Isolate the area. Keep away from incompatible products. Prevent further leakage or spillage if safe to do so. In case of contact with combustible material, keep material wet with plenty of water. Dam up and soak up with inert absorbent material (vermiculite or sand). Dilute with plenty of water. Can be flushed into sewers with plenty of water.

## 7. HANDLING AND STORAGE

**Handling advice:** Use only in well ventilated areas. Keep away from heat, incompatible products, and organic materials. Use only equipment and materials which are compatible with

the product. Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer. Never return unused material to storage receptacle. Use only in areas with adequate water supply. Containers and equipment used to handle the product must be used exclusively for that product.

**Storage advice:** Keep in a cool, well-ventilated place. Keep away from heat. Store in a receptacle equipped with a vent. Store in its closed original container in a bonded area. Regularly check the condition and temperature of the containers. Avoid storing near: acids, bases, metals and their salts, reducing agents, organic materials, and flammable materials.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Occupational Exposure Limits:** TWA = 1 ppm (1.4mg/m<sup>3</sup>).

**Engineering Controls:** Ensure adequate ventilation.

**Personal Protection Equipment:**

In case of emissions, face mask with type NO-P3 cartridge. Wear self-contained breathing apparatus in medium confinement with insufficient oxygen, and in case of large uncontrolled emissions in all circumstances when the mask and cartridge do not give adequate protection. Wear protective gloves made from PVC or rubber. Chemical resistant goggles must be worn. If splashes are likely to occur, wear tight fitting safety goggles and face shield. Wear chemical resistant clothing. If splashes are likely to occur, wear a chemical resistant apron.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colourless clear liquid with a sharp odour.

**Boiling Point:** 115°C

**Melting Point:** - 52°C

**Flash Point:** Non flammable.

**Vapour Pressure:** 10 mmHg @20°C

**Vapour Density (Air = 1):** 1

**Flammability Limits:** Non flammable.

**Specific Gravity:** 1.13

**pH (1% dispersion):** < 3

**Solubility in water:** Soluble in all proportions.

**Corrosiveness:** Corrosive to human tissue.

## 10. STABILITY AND REACTIVITY

**Stability:** Potential for exothermic hazard. Stable under recommended storage conditions.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50, rat, 1232 mg/kg (H<sub>2</sub>O<sub>2</sub> 35%)

Acute inhalation toxicity: LC50, 4 h, rat, 2.00 mg/m<sup>3</sup> (hydrogen peroxide)

Acute dermal toxicity: LD50, rabbit, > 2.000 mg/kg (H<sub>2</sub>O<sub>2</sub> 35%)

Skin irritation: rabbit, skin irritation (H<sub>2</sub>O<sub>2</sub> 35%)

Eye irritation: Risk of serious damage to eyes (H<sub>2</sub>O<sub>2</sub> 35%)

Irritation (other route): Inhalation, mouse, irritating to respiratory system, RD 50 = 665 mg/m<sup>3</sup>.

### Acute Health Effects:

**Ingested:** Severe irritation. Ingestion causes burns of the upper digestive and respiratory tracts. Produces nausea, vomiting, bloating of the stomach, belching and there is a risk of chemical pneumonitis from product inhalation.

**Eye:** Severe eye irritation, redness, lachrymation, swelling of tissue and risk of serious damage to eyes.

**Skin:** Severe skin irritation, redness and swelling of tissue. Causes burns to skin.

**Inhaled:** Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Repeated or prolonged exposure; risk of sore throat, nose bleeds, chronic bronchitis.

**Chronic:** Prolonged contact with dilute solutions may cause skin irritation.

## 12. ECOLOGICAL INFORMATION

Acute toxicity:

- Fish, Pimephales promelas, LC50, 96h, 16.4 mg/l
- Fish, Pimephales promelas, NOEC, 96h, 5 mg/l
- Crustaceans, EC50, 48h, 2.4 mg/l
- Crustaceans, NOEC, 48h, 1 mg/l

Chronic toxicity:

- Molluscs, NOEC, 56 Days, 2 mg/l
- Algae, Chlorella vulgaris, EC50, growth rate, 72 h, 4.3 mg/l
- Algae, Chronella vulgaris, NOEC, 72h, 0.1 mg/l

Toxic to aquatic organisms. Inherently biodegradable. Does not bioaccumulate. Decomposes to water and oxygen.

## 13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority.

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## 14. TRANSPORT INFORMATION

**UN Number:** 2014

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

**Dangerous Goods Class:** 5.1

**Subsidiary risk:** 8

**Packing Group:** II

**Hazchem Code:** 2P

**Road and Rail Transport:** Classified as a Class 5.1 (Oxidising Agent) Dangerous Good for the purpose of transport via road and rail.



## 15. REGULATORY INFORMATION

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**Poisons Schedule:** 6

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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 should review this information in the specific context of the intended application.

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