

# Safety Data Sheet



Hazardous, Dangerous Goods

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Triple7 AquaSmart Ultra

### Synonyms

Triple7 AquaSmart Ultra 5L  
Triple7 AquaSmart Ultra 20L

### Product Code

AAAQSU-5  
AAAQSU-20

**Recommended use:** Disinfectant and sanitizer. Antiviral water disinfectant. Chlorine free. Breaks down into oxygen and water when used.

**Supplier:** Envirofluid Pty Ltd  
**ABN:** 77 288 189 649  
**Street Address:** 39 Coghlan Rd  
Warrnambool, Victoria 3280 Australia  
**Telephone:** 1800 777 580 ( 8am - 5pm AEST )  
**Facsimile:** 1300 777 580  
**Email:** info@envirofluid.com

**Emergency Telephone number:** +61 3 5564 6499 (24h)

## 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



### Signal Word

Danger

### Hazard Classifications

Oxidising Liquids - Category 2  
Acute Toxicity - Oral - Category 4  
Acute Toxicity - Inhalation - Category 4  
Skin Corrosion/Irritation - Category 1B  
Eye Damage/Irritation - Category 1  
Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation  
Acute Hazard to the Aquatic Environment - Category 2

### Hazard Statements

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H401 Toxic to aquatic life.

**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 1 of 9**



# Safety Data Sheet



## Prevention Precautionary Statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P220 Keep/Store away from clothing/combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P260 Do not breathe dust, fume, gas, mist, vapours or spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing including eye/face protection .

## Response Precautionary Statements

- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340 IF INHALED: Remove person to fresh air and keep 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. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor/insert appropriate source of emergency medical advice.  
P330 Rinse mouth.  
P363 Wash contaminated clothing before reuse.  
P370+P378 In case of fire: Use water spray or fog to extinguish.

## Storage Precautionary Statements

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

## Disposal Precautionary Statement

- P501 Dispose of contents/container to an approved waste disposal plant. .

## Poison Schedule:

## DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

**Dangerous Goods Class:** 5.1

**Subrisk 1:** 8

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	7722-84-1	30-60 %
Silver nitrate	7761-88-8	<0.1 %
Ingredients determined to be Non-Hazardous		Balance
		100%

**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 2 of 9**



## 4. FIRST AID MEASURES

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If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**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. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

**Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. 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.

**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.

**Ingestion:** 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 patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.

**PPE for First Aiders:** Wear overalls, gloves, safety glasses. Available information suggests that gloves made from neoprene 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

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**Hazchem Code:** 2P

**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).

**Specific hazards:** May intensify fire; oxidiser.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

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### SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

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**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 3 of 9**



# Safety Data Sheet



## 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

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## 7. HANDLING AND STORAGE

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**Handling:** Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

**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 "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**National occupational exposure limits:**

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Hydrogen peroxide	1	1.4	-	-	-

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to 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 "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

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**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 4 of 9**



# Safety Data Sheet



**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 appropriate respirator.

**Personal Protection Equipment:** OVERALLS, GLOVES, SAFETY GLASSES.



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 overalls, gloves, safety glasses. Available information suggests that gloves made from neoprene 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. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Form:** Clear Liquid  
**Colour:** Colourless  
**Odour:** Sharp Odour

**Solubility in water:** Soluble  
**Density:** 1.20g/cm<sup>3</sup> at 20°C  
**Vapour Pressure (20 °C):** 1 mm Hg at 20°C  
**Melting Point/Range (°C):** -52°C  
**Boiling Point/Range (°C):** 114°C  
**Decomposition Point (°C):** >50°C

(Typical values only - consult specification sheet)  
N Av = Not available, N App = Not applicable

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## 10. STABILITY AND REACTIVITY

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**Chemical stability:** Stable under normal conditions of storage and handling.

**Conditions to avoid:** Reacts with incompatible materials

**Incompatible materials:** Oxidising agent. Incompatible with combustible materials, reducing agents (eg. amines), acids (eg. nitric acid), alkalis (eg. hydroxides), metals, heat and ignition sources. May explode if heated. Will decompose slowly at ambient temperatures to evolve oxygen.

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**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 5 of 9**



# Safety Data Sheet



**Hazardous decomposition products:** Thermal decomposition may result in the release of toxic and/or irritating fumes.

**Hazardous reactions:** Polymerization will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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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:

### Acute Effects

**Inhalation:** Harmful if inhaled. Material is an irritant to mucous membranes and respiratory tract.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

**Ingestion:** Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

**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 a Category 4 Hazard. Acute toxicity estimate (based on ingredients):  $10.0 < LC_{50} \leq 20.0$  mg/L for vapours or  $1.0 < LC_{50} \leq 5.0$  mg/L for dust and mist.

**Skin contact:** This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients):  $300 < LD_{50} \leq 2,000$  mg/Kg bw

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 1B Hazard (irreversible effects to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as not an aspiration hazard.

**Specific target organ toxicity (single exposure):** This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.

### Chronic Toxicity

**Mutagenicity:** This material has been classified as not a mutagen.

**Carcinogenicity:** This material has been classified as not a carcinogen.

**Reproductive toxicity (including via lactation):** This material has been classified as not a reproductive toxicant.

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**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 6 of 9**





# Safety Data Sheet



**Specific target organ toxicity (repeat exposure):** This material has been classified as not a specific hazard to target organs by repeat exposure.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients):  $> 1 \leq 10$  mg/L

**Long-term aquatic hazard:** This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients):  $> 100$  mg/L, where the substance is not rapidly degradable and/or  $BCF < 500$  and/or  $\log K_{ow} < 4$ .

**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

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".



<b>UN No:</b>	2014
<b>Dangerous Goods Class:</b>	5.1
<b>Subrisk 1:</b>	8
<b>Packing Group:</b>	II
<b>Hazchem Code:</b>	2P
<b>Emergency Response Guide No:</b>	31
<b>Limited Quantities</b>	1 L

**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 7 of 9**



# Safety Data Sheet



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

**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

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.



**UN No:** 2014  
**Dangerous Goods Class:** 5.1  
**Subrisk 1:** 8  
**Packing Group:** II

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

## AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



**UN No:** 2014  
**Dangerous Goods Class:** 5.1  
**Subrisk 1:** 8  
**Packing Group:** II

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

## 15. REGULATORY INFORMATION

**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)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

**Product Name:** Triple7 AquaSmart Ultra

**Issued:** 2021-09-07

**Version:**

**Page 8 of 9**





# Safety Data Sheet



**This material/constituent(s) is covered by the following requirements:**

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): .

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## 16. OTHER INFORMATION

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Reason for issue: 5 Yearly Revision

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 you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

