

# Safety Data Sheet

AQUAPAC

Water Treatment & Specialty Chemicals

## Hazardous Chemical, Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **PERACETIC ACID**

Recommended use: Bactericide

Supplier: Aquapac Pty Ltd  
ABN: 36 114 118 311  
Street Address: 88 Lee Holm Road  
St Marys NSW 2760  
Telephone: 02 9673 1192  
Facsimile: 02 9673 1193

Emergency Telephone number: **1800 HELP**

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



#### Signal Word

Danger

#### Hazard Classifications

Organic Peroxides - Type F  
Acute Toxicity - Oral - Category 4  
Acute Toxicity - Dermal - Category 4  
Acute Toxicity - Inhalation - Category 4  
Corrosive to Metals - Category 1  
Skin Corrosion/Irritation - Category 1A  
Serious Eye Damage/Irritation - Category 1  
Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation  
Acute Hazard to the Aquatic Environment - Category 1

#### Hazard Statements

H242 Heating may cause a fire.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

#### Prevention Precautionary Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P220 Keep/Store away from clothing/combustible materials/(insert appropriate material).  
P234 Keep only in original container.  
P260 Do not breathe dust, fume, gas, mist, vapours or spray.

# Safety Data Sheet

P261	Avoid breathing dust, fume, gas, mist, vapours or spray..
P264	Wash hands, face and all exposed 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 clothing, gloves, eye/face protection and suitable respirator.

## Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	Specific treatment (see product label).
P322	Specific measures (see product label).
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.

## Storage Precautionary Statements

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in original container with a resistant inner liner.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding XX °C/ YY °F. Keep cool.
P420	Store away from other materials.

## Disposal Precautionary Statement

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

## 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
Peracetic acid	79-21-0	100 %
Ingredients determined to be Non-Hazardous		Balance

## 4. FIRST AID MEASURES

# Safety Data Sheet

**AQUAPAC**

Water Treatment & Specialty Chemicals

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

**Inhalation:** Potential for exposure by inhalation if aerosols or mists are generated. Move victims into fresh air. With laboured breathing: Provide with oxygen. Consult a doctor. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately

**Skin Contact:** Wash off affected area immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician for treatment.

**Eye contact:** With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist immediately if the symptoms persist. When dealing with caustic substances, notify emergency physician immediately (key words: burns in eye).

**Ingestion:** Rinse mouth. Immediately give large quantities of water to drink. Obtain medical attention. When dealing with caustic substances, notify emergency physician immediately.

**Notes to physician:** Treat symptomatically. Can cause corneal burns. Strongly irritating to corrosive. Harmful in contact with skin and if swallowed. Vapours may cause drowsiness and dizziness. Pay attention to self-protection. Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. Do not leave victims unattended. If the casualty is unconscious: Place the victim in the recovery position

## 5. FIRE FIGHTING MEASURES

**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:** Heating may cause a fire.

**Fire fighting further advice:** Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. 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

### 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.

### 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

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

# Safety Data Sheet

AQUAPAC

Water Treatment & Specialty Chemicals

**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. Do not expose to temperatures exceeding manufacturer's/supplier's recommendations. Store in corrosive resistant container with a resistant inner liner. 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

**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.

**National occupational exposure limits:** Natural ventilation should be adequate under normal use conditions..

**Personal Protection Equipment:** OVERALLS, GLOVES, APRON, CHEMICAL GOGGLES.

Wear overalls, gloves, apron, chemical goggles. Available information suggests that gloves made from 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Clear Liquid  
**Colour:** CLEAR  
**Odour:** STINGING

**Solubility:** COMPLETELY MISCIBLE  
**Vapour Pressure (20 °C):** 25 hPa @20c  
**Flash Point (°C):** 79C ISO 2719 (closed cup)  
**Autoignition Temperature (°C):** 260C  
**pH:** <0.6

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

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under recommended storage conditions. Product is supplied in stabilised form

**Conditions to avoid:** Sun rays, heat, heat effect. When coming in contact with the product, impurities, decomposition catalysts, metallic salts, alkalis, reducing agents may lead to self-accelerated, exothermic decomposition and the formation of oxygen. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Release of oxygen may support combustion

**Incompatible materials:** Impurities, decomposition catalysts, metal salts, alkalis, reducing substances., metals, non ferrous heavy metal, aluminium, zinc., Possible hazardous reaction: decomposition. Flammable materials,

**Product Name:** PERACETIC ACID

**Reference No:** PERACETIC ACID

**Issued:** 2016-12-01

**Version:** 2016.1

**Page 4 of 8**

# Safety Data Sheet

AQUAPAC

Water Treatment & Specialty Chemicals

Possible hazardous reaction: Spontaneous ignition. organic solvents, Possible hazardous reaction: Danger of explosion.

**Hazardous decomposition products:** Risk of self-accelerating, exothermic decomposition with the development of oxygen, at, Effect of thermal energy /heat. Product is a(n) oxidizing agent and reactive.

**Hazardous reactions:** Decomposition products under conditions of thermal decomposition: Steam Oxygen Acetic acid

## 11. TOXICOLOGICAL INFORMATION

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. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**Skin contact:** Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Extremely corrosive and destructive to tissue

**Ingestion:** Harmful if swallowed. Harmful if swallowed

**Eye contact:** Irreversible effects on the eye.

### Acute toxicity

**Inhalation:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 10 - 20 mg/L

**Skin contact:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 1,000 - 2,000 mg/Kg

**Ingestion:** This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

**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 1A 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 non-hazardous.

**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 non-hazardous.

**Carcinogenicity:** This material has been classified as non-hazardous.

**Reproductive toxicity (including via lactation):** This material has been classified as non-hazardous.

**Specific target organ toxicity (repeat exposure):** This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.LC50 Oncorhynchus mykiss: 0.91 mg/l / 96 h, Test substance: peracetic acid 100 %, literature.EC50 static test Daphnia magna: 0.69 mg/l / 48 h, Test substance: peracetic acid 100 %, Method: US-EPA-method.EC50 static test Pseudokirchneriella subcapitata (aglae): 0.16 mg/l / 72 h, End point: growth rate, Test substance:peracetic acid 100 %, Method: US-EPA-method.NOEC static test Pseudokirchneriella subcapitata (aglae): 0.061 mg/l / 72h, End point: growth rate, Test substance:peracetic acid 100 %, Method: US-EPA-method.EC50 static test Pseudokirchneriella subcapitata (aglae): 0.86 mg/l / 72 h, End point: growth rate, Test substance:peracetic acid 100 % Method: OECD TG 201.EC50 static test Activated sludge: 38.6 mg/l / 3 h, Test substance: peracetic acid 100 %, Method: OECD 209.EC50 static test Activated sludge: 5.1 mg/l / 3 h, Test substance: peracetic acid 100 %, Method: OECD 209.NOEC flow-through test Danio rerio: 0.00094 mg/l / 33 d, Test substance: peracetic acid 100 %, Method: OECD TG210.NOEC semi-static test Daphnia magna: 0.05 mg/l / 21 d, Test substance: peracetic acid 100 % Method: OECD 211

**Long-term aquatic hazard:** aerobic, inoculum: activated sludge, Exposure time: 28 d, Result: 98 % Readily biodegradable, Test substance:peracetic acid 40 % Method: OECD TG 301 E At non-bacteriotoxic concentrations.aerobic, inoculum: activated sludge, Exposure time: 3 min, Result: 100 % Totally biodegradable, Test substance:peracetic acid 40 % Method: OECD TG 209.The product does not contain any organically bonded halogen. Under ambient conditions quick hydrolysis, Reduction or decomposition occurs. The following substances are formed: oxygen, water, acetic acid.Acetic acid is easily biodegradable.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Bioaccumulative potential:** No information available.

**Mobility:** log Pow: -0.52

## 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".



UN No:	3149
Dangerous Goods Class:	5.1
Subrisk 1:	8
Packing Group:	II
Hazchem Code:	2P
Emergency Response Guide No:	31

# Safety Data Sheet

**Proper Shipping Name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED

**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:** 3149  
**Dangerous Goods Class:** 5.1  
**Subrisk 1:** 8  
**Packing Group:** II

**Proper Shipping Name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED

## 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:** 3149  
**Dangerous Goods Class:** 5.1  
**Subrisk 1:** 8  
**Packing Group:** II

**Proper Shipping Name:** HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE STABILIZED

## 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)

## 16. OTHER INFORMATION

# Safety Data Sheet



Reason for issue: Format change

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.