

# Safety Data Sheet

**AQUAPAC**

Water Treatment & Specialty Chemicals

## Hazardous Chemical, Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Walltech Heritage**

Recommended use: Removing calcium deposits from ceramics/bricks Descalant

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

Corrosive to Metals - Category 1  
Skin Corrosion/Irritation - Category 1B  
Serious Eye Damage/Irritation - Category 1  
Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation

#### Hazard Statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

#### Prevention Precautionary Statements

P102 Keep out of reach of children.  
P103 Read label before use.  
P234 Keep only in original container.  
P260 Do not breathe dust, fume, gas, mist, vapours or spray.  
P261 Avoid breathing dust, fume, gas, mist, vapours or spray..  
P264 Wash hands, face and all exposed skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
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+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.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

Product Name: **Walltech Heritage**

Reference No: **WALLTECH  
HERITAGE**

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- 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).
- P363 Wash contaminated clothing before reuse.
- P390 Absorb spillage to prevent material damage.

### 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.

### Disposal Precautionary Statement

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

Poison Schedule: S6. Poison

### 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: 8

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Ammonium fluoride, ((NH <sub>4</sub> )(HF <sub>2</sub> ))	1341-49-7	<10 % (w/w)
Citric acid	77-92-9	<10 % (w/w)
Corrosion Inhibitor(s)		<2 % (w/w)
Hydrochloric acid	7647-01-0	<50% % (w/w)
Non-hazardous materials		25 % (w/w)
Oxalic acid	144-62-7	<10 % (w/w)
Surfactants		<2 % (w/w)
Ingredients determined to be Non-Hazardous		Balance

## 4. FIRST AID MEASURES

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

**Inhalation:** Remove patient from the contaminated area, without becoming a patient yourself, and lay them down. Remove any objects or prostheses from the mouth which could block the airway. IMMEDIATELY transport to a hospital or doctor.

**Skin Contact:** AVOID all further contamination and immediately begin flushing the area with excess water. While flushing the area with excess water, remove any clothing including footwear. Continue flushing the area for at least 15min. If available, massage CALCIUM GLUCONATE GEL into the affected area and especially into creases/folds in the skin. Contact POISON CENTER and continue applying the gel for at least 15min after burning sensations end. If the gel is not available, substitute with soap. Transport immediately to a hospital. Present this SDS to the medical staff immediately with the Patient.

**Eye contact:** Immediately flush with excess water, pulling back the eyelids to remove all of the product. Continue

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for at least 15min or until instructed to stop by the POISON CENTER. Transport immediately to hospital.

**Ingestion:** DO NOT INDUCE VOMITING. Urgently transport to hospital; treatment is likely needed. Give liquid to rinse out the mouth and remove any prostheses that may harbour the product. Then provide liquid slowly and as much as the patient can comfortably drink.

**Notes to physician:** Treat symptomatically. Can cause corneal burns. Calcium gluconate should be used to treat the burns; subcutaneous injections may be required. Systemic damage includes renal damage, hypocalcaemia, and cardiac arrhythmia.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** 2X

**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:** Non-combustible material.

**Fire fighting further advice:** Not applicable.

## 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

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). 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:** 37

## 7. HANDLING AND STORAGE

**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. 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 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.

This material is a Scheduled Poison Schedule 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Product Name:** Walltech Heritage

**Reference No:** WALLTECH  
HERITAGE

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## National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Hydrogen chloride	5 Peak limitation	7.5 Peak limitation	-	-	-
Oxalic acid	-	1	-	2	-

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 too 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.

**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:** SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses. 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:** Colourless to pale yellow  
**Odour:** Characteristic

**Solubility:** Miscible  
**Specific Gravity (20 °C):** 1.2  
**pH:** 2.5-3.5 (as supplied)

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

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Product is stable under normal conditions of use, storage and temperature.\*\* KEEP CONTAINERS WELL SEALED \*\*

**Conditions to avoid:** High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

**Incompatible materials:** Strong alkalis.

**Hazardous decomposition products:** May produce hydrogen chloride and /or corrosive gases

**Hazardous reactions:** No known hazardous reactions.

## 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:** Irritates the airways and mucous membranes. May cause dizziness, headache, nausea, weakness. Pulmonary oedema can occur up to 72h after exposure. Exposure can result in cardiac arrhythmias because the product may be absorbed into the blood by any contact pathway.

**Skin contact:** Skin irritant. May lead to cardiac arrhythmia upon absorption through the skin. Produces chemical burns in the skin, along with severe burns. Produce may be absorbed into the blood by any contact pathway.

**Ingestion:** May be harmful; can cause burns to the gastro-oesophageal tract and mouth. DO NOT neutralise, as this could cause release of significant heat causing secondary injuries and increasing the severity of the burns. Likely to cause serious pain and difficulty in swallowing. Nausea, vomiting, diarrhea and/or pronounced thirst. Can cause cardiac arrhythmia since product can be absorbed by any contact pathway. Considered an unlikely contact route due to form in commercial and industrial environments.

**Eye contact:** May cause chemical burns to the eye; vapours and mists are extremely irritating. Produces lesions in test animals. May cause pain, photophobia, lachrymation, and burns. Cornea may become vascularised and opaque; severe epithelia burns can result in long-lasting or permanent damage.

### Acute toxicity

**Inhalation:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

LC50 (Rat): 3124ppm/h HCl

LC50 (Rat): 1276 ppm/h ammonium bifluoride

**Skin contact:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

LD50 (Rat): >2000mg/kg citric acid

**Ingestion:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

LD50 (Rat): 900mg/kg HCl

LD50 (Rat): 130 mg/kg ammonium bifluoride

LD50 (Rat): 3000 mg/kg citric acid

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**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).

Eye irritant (Rabbit): 5mg/30s MILD HCl  
Eye irritant (Rabbit): 0.75mg/24h SEVERE citric acid  
Skin irritant (Rabbit): 500mg/24h MILD citric acid

**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:** This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

48hr EC50 (Daphnia magna): 97mg/L ammonium bifluoride  
48hr EC50 (Daphnia magna): 136.9 mg/L oxalic acid  
96hr EC50 (Daphnia magna): 10.5mg/L ammonium bifluoride  
96hr EC50 (algae): 344.947mg/L HCL  
96hr EC50 (algae): 23.29809 mg/L citric acid  
96hr EC50 (algae): 91267.289 mg/L oxalic acid

**Long-term aquatic hazard:** This material has been classified as non-hazardous. 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<sub>ow</sub> < 4.

**Ecotoxicity:** No information available.

**Persistence and degradability:** LOW persistence in air and soil.

**Bioaccumulative potential:** Risk of bioaccumulation in an aquatic species is low.

**Mobility:** Oxalic Acid has HIGH mobility, all other ingredients LOW mobility.

## 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.

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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:** 1760  
**Dangerous Goods Class:** 8  
**Packing Group:** II  
**Hazchem Code:** 2X  
**Emergency Response Guide No:** 37

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. 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:** 1760  
**Dangerous Goods Class:** 8  
**Packing Group:** II

**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

### 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:** 1760  
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**Proper Shipping Name:** CORROSIVE LIQUID, N.O.S.

## 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)

**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).

## 16. OTHER INFORMATION

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.