



# AQUAVIRO HULL CLEANER (AHC)

## Non-Acid Barnacle Growth, Rust & Scale Remover and Cleaner

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### DESCRIPTION:

Aquaviro Hull Cleaner (AHC) is a 'non acid' rust & scale remover / cleaner. AHC contains no strong mineral acids, is non-fuming under normal use, is non-corrosive to the skin and is safe on fibre glass, gelcoat, paint work and most metals\*.

AHC is a liquid compound specially formulated using an organic salt for the cleaning and removal of both organic and inorganic mineral deposits such as rust, salt, scale, yellowing, coral and barnacles from hulls, shafts and propellers.

AHC also contains special wetting agents, so it is also an effective cleaner for the removal of grime, oxides, oil, grease etc, from most hard surfaces.

AHC is harmless to most paints and finishes. If applied correctly, it will leave paintwork and gelcoat clean and free of oxides\*.

AHC is perfect for de-scaling smelly pipes / holding tanks.

### PROPERTIES:

APPEARANCE	Light yellow liquid.
FLASHPOINT	Nil (Non Flammable)
pH	2.6 – 2.8
SPECIFIC GRAVITY	1.05
CORROSION *	Non-corrosive to most metals except zinc coated / galvanized metals and marble / stone finishes.

### **\*SAFETY CONSIDERATIONS**

Although non-hazardous, it is recommended, in line with good operational procedure that protective clothing, gloves and eye protection are worn when product is being used. Always test the areas to be cleaned first with a token amount of solution to ensure there are no adverse or unforeseen effects. "Fuming", mist irritation or possible release of acidic - type fumes may occur when spraying this type of product at a very fine particle size, perhaps with an air assisted spray gun. Always use appropriate personal protection equipment and always consult the Material Safety Data Sheet and your organisations OHS manual and policies for further information and procedures.

**Directions For Use:**

The following information is considered indicative for the use of AHC. It is entirely the responsibility of the user to determine the most appropriate method for using AHC relative to their individual requirements.

**Applying To Surfaces:**

AHC may be brushed, broomed or sprayed on with spray bottles or a manual “garden-type” sprayer and applied as often as required according to the levels and condition of soiling present.

**Usage:**

AHC is active and working whilst bubbling and foaming. When this action stops, start cleaning the surface in the usual manner and then re-apply on heavier soilings as required. Apply to hulls, shafts, propellers etc. to remove rusting, scale deposits, yellowing and general marine growth (barnacles etc). See below for suggested usage and process recommendations.

**Contact Time:**

**Required strengths and contact times will vary depending on the type, age and quantity of the soiling.**

AHC is depleted by the soiling, so on heavier soilings such as full barnacle base growth, two or more applications perhaps may be required to soften and dislodge barnacle bases and speed up the surface restoration of a badly soiled hull. The better / longer the contact time, the better the result will be. Alternatively, simply apply more product, at stronger concentrations, to speed up the result, ensuring the product is on the soiling and not concentrated on the surface. **Always test the surface first with the weakest solution to ensure there are no adverse or unforeseen results.**

**Suggested Dilution Rates Guide:**

<b>APPLICATION</b>	<b>DILUTION RATE</b>
Barnacles Bases – heavy coverage	Neat to 3:1
Marine Growths – Spider Coral etc	3:1 – 20:1
De-Scaling Holding Tanks, Sanitation / Sewerage Pipes	Neat to 5:1
Yellowing on Fibreglass	1:1 to 5:1
Heavy Surface Rust	Neat to 1:1 – 5:1
Surface Grime	3:1 to 6:1
Oxidisation and salt scale removal	5:1 to 20:1
Toilet / Washroom De-Scaling – heavy duty (light duty)	Neat to (4:1)
Concrete Splatter Removal	Neat

**Method Of Application:**

Wet surface to be cleaned with [fresh water](#) then apply the AHC solution as per table instructions above or on reverse label. **Please note these dilution rates are a guide only and always test the surface with the weakest made up solution first to ensure there are no unforeseen results. Re-check as the solution strength is increased for any unforeseen results.**

**Barnacle Bases, Spider Coral and Marine Growth** – remove all barnacles / growth with a pressure washer. Soak down the remaining barnacle **BASES** in accordance with the dilution guide, then leave for 5-10 minutes. Depending on the soiling type and how thick it is it may be necessary to **repeat spray the soilings, 3-5 times in total with a five to 10 minute wait between each application**. Then pressure wash again and the barnacle bases etc will remove very easily, dramatically reducing the labour, sanding and time taken to clean down a hull. Finally, rinse thoroughly. Under normal usage it is unlikely for AHC to affect antifouls, however there are many differing antifoul formulas and some of these may interact with AHC in strong concentrations.

**De-Scaling Holding Tanks, Sanitation / Sewerage Pipes** – empty holding tank as best as possible. Fill up completely with a solution of fresh water and AHC at the appropriate rates and leave for up to one week. The stronger the solution the quicker the result and if time is not an issue then use at say 5:1- 10:1 and leave for a

few days. Ensure complete contact to all internal areas by filling the tank AND the pipe-work. For a blocked pipe-work clean only, detach the pipe at the tank and toilet, block off the bottom of the pipe (with perhaps a valve) and fill up the pipe completely with a 1:1-3:1 solution. Once clean, rinse thoroughly with fresh water. Then re-treat all holding tanks with Aquaviro E-TREAT Concentrate holding tank treatment at the suggested rates.

Concrete Splatter Removal – brush on to the concrete splatter, working / scrubbing the solution into the dried cement. For larger areas spraying on with a small garden sprayer is an effective method. Allow to soak in, reapply as required and clean in the usual manner. As paint and surface conditions vary considerably, always test the area to be cleaned first to ensure there are no adverse or unforeseen effects. AHC attacks concrete so apply with caution. Do not spill onto concrete. Dilute immediately and flush thoroughly with water if AHC is applied to the incorrect concrete surfaces.

For Yellowing, Rust, Oxidisation, Grime and Scale Removal – soilings and surfaces vary considerably and will vary the individual results and dilution rates required. Brush, broom or spray the made up solution on to the surface as deemed best practice. Use the dilution rate as a guide and vary the strength and contact time as required. Use Hull Cleaner for heavier rust removal on stainless steel at 1:1 or weaker. Clean in the normal manner. For lighter rust removal use Aquaviro Stainless Steel Cleaner and Preparer. Rinse thoroughly and always apply Aquaviro Stainless Steel Rejuvenator and Protector after cleaning then rinsing the stainless steel.

Clean Up – Wash all equipment and clothing in fresh water immediately after use. Rinse off after the wash up, again in fresh water. Ensure all waste water is handled in the correct manner. Always abide by Work Cover, OH&S and Company policies at all times.

**Do not leave Aquaviro Hull Cleaner on surfaces for long periods and ensure that Hull Cleaner is thoroughly rinsed off all surfaces with fresh water immediately after use. Do not drink and do not apply to animals, birds etc for soiling removal. Always wear eye protection and other appropriate personal protection equipment as circumstances dictate when using AHC and use in conjunction with any localised environmental considerations / regulations.**

### Safety Information

#### Spills and Leaks

Wear protective clothing, contain with sand or similar absorbent. Neutralise with alkaline such as soda ash. Sweep or scrape up for disposal. Wash affected area thoroughly with water.

#### First Aid

For advise contact a poisons information centre (eg, Australia phone 131126, New Zealand phone 03 4747 000) or a doctor at once. If swallowed, do not induce vomiting. If in eyes, wash out immediately with water. If skin or hair contact occurs, remove any contaminated clothing and flush skin and hair with running water. Additional information is listed in material safety data sheet. Visit [www.aquaviro.com.au](http://www.aquaviro.com.au) to download the free, latest pdf of MSDS and Technical Bulletins.

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Aquaviro Australia Pty Ltd.  
P.O. Box 73, Kurri Kurri, NSW, Australia 2327.  
Telephone +61 2 4936 5000  
Facsimile + 61 2 4936 2913  
Web: [www.aquaviro.com.au](http://www.aquaviro.com.au)