

# BARNACLE<sup>X</sup>

**CONCENTRATED BARNACLE, MUSSEL & SCALE DISSOLVER**

**BARNACLE<sup>X</sup>** is the only biofouling dissolver / remover whose chemistry targets the complete range of issues associated with both fouling organisms and the dissolved minerals contained in fresh, brackish and seawater. **BARNACLE<sup>X</sup>** not only dissolves calcium- and silicone dioxide-based shells and exoskeletons, it also breaks down mineral accumulations and the bio-adhesives secreted by barnacles, mussels and limpets, so that those organisms can be more quickly and easily removed from vessel hulls and running gear.

- For use on both freshwater and saltwater systems and hulls.
- Dissolves the calcium and silicone dioxide shells and exoskeletons of macrofouling organisms such as barnacles, mussels, limpets and coral, as well as microfouling organisms such as bacteria and algae that accumulate on heat exchanger surfaces.
- Contains the natural release agent for the bio-adhesives secreted by barnacles and mussels.
- Reduces corrosion caused by restricted flow, the anodic condition created by decreased oxygen below the fouling layer, and the metabolic by-products of bacteria.
- Safe on bronze, copper, gelcoat and marine paints when used as directed

## THE ONLY BARNACLE BUSTER WITH TRI-ACTION

- **The Best Value:** Dilutes up to 5:1 with water
- Dissolves calcium- and silicone-based shells and exoskeletons
- Targets the bio-adhesives that barnacles and mussels use to attach
- Dissolves algae, coralline and mineral scale

## APPLICATIONS

- Cleaning heat exchangers on water-cooled engines
- Cleaning heat exchangers on marine air conditioners
- Clearing restricted pipework and valves
- Removing macrofouling (ex: barnacles, mussels and limpets) and other hard fouling from boat and ship hulls and running gear

## TECHNICAL SPECIFICATIONS

Color:	Red
Odor:	Mint
Appearance:	Transparent, non-viscous liquid
pH:	<2
VOC Content:	0
Solubility in Water:	Complete



marine raw water line



hull sea strainer



All Products 100% Made In The USA

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## **DIRECTIONS**

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### **IMPORTANT:**

1. Do not use on polished or anodized aluminum, magnesium, zinc, galvanized or decorative metal surfaces.
2. Pretest in an inconspicuous area prior to using on painted surfaces.
3. Use only acid resistant spray and foaming systems. When spraying, apply using a coarse spray; do not mist.
4. Do not transfer or store in metal containers.

### **MARINE ENGINE HEAT EXCHANGER**

In a bucket or similar container, dilute each gallon of **BARNACLE<sup>X</sup>** with up to 5 parts water.

#### **Immersion Method:**

1. Run engine to operating temperature, and then turn it off.
2. **CLOSE** engine raw water inlet seacock.
3. Disconnect water inlet hose and place it in a container of **BARNACLE<sup>X</sup>** diluted with water.
4. Start engine and wait until the diluted **BARNACLE<sup>X</sup>** comes out of overboard discharge.
5. Stop engine, close discharge seacock, and allow the product to soak inside the engine for approximately 8 hours.
6. **OPEN** engine raw discharge seacock.
7. Reconnect inlet suction hose to inlet seacock, open inlet seacock.
8. Run the engine for 10+ minutes to thoroughly flush the system.

#### **Recirculation Method:**

1. **CLOSE** raw water inlet and overboard discharge seacocks.
2. Disconnect water inlet and overboard discharge hoses, and place both in a container of water.
3. Remove impeller from housing, then close impeller housing (without impeller).
4. Using a circulation pump attached to the inlet hose, circulate water through the system and check for leaks.
5. If no leaks, add **BARNACLE<sup>X</sup>** to water container until it reaches the desired dilution.
6. Circulate through the engine for 2-3 hours.
7. Discard fluid. If there is excess buildup, repeat for 2 additional hours, and discard fluid.
8. Reconnect hoses, **OPEN** raw water inlet and discharge seacocks.
9. Run the engine for 10+ minutes to thoroughly flush the system.

### **HULL CLEANING**

Test in an inconspicuous area first. Spray, foam or brush on full strength to encrusted areas under waterline, including running gear. Let soak for 2-5 minutes, agitate with a hard bristle brush, and rinse thoroughly.