



## **C.H. Cleans Hoses and tanks and MSD's -**



**Part#  
1PCHGAL**

**C.H. is a must have for all boatyards, marine plumbers, marinas and boat owners. Every marine toilet system, MSD and connecting hoses will need cleaning at some point. C.H. adds life to the boats sanitation system while providing less maintenance and less cost over time.**

***Safe \* Non-Toxic \* Biodegradable \* non hazardous***

### ***Advantages and uses:***

- Recommended for all Lectra/San and Electroscan units  
- Increases plate life by using every 6 months
- Designed to work without having to remove any piping or creating a mess.
- C.H. is an effective alternative to remove uric scale and build up from black water systems.
- Dissolves clogs which cause plumbing to overflow and create nasty odors.



## CLEANING SYSTEMS WITH RARITAN'S "CH - CLEANS HOSES"

### **Systems with holding tanks:**

Mix solution using a 1:5 mix (1 part Cleans-Hoses, 5 parts clean water). Pour solution into toilet and flush until a minimum of 3 gallons has made it to the holding tank. Allow mixture to sit in the hoses for a at least 6 hours or a maximum of 24 hours. Flush toilet with plenty of clean water, 10 gallons or more, then pump out the holding tank and resume use of system. See tank cleaning instructions for cleaning holding tank.

### **Systems with Elecro-scan or Lectra/San:**

Flush the toilet 10 normal flushes to clear any residual chemicals. Mix solution using a 1:5 mix (1 part Cleans-Hoses, 5 parts clean water). Pour solution into toilet and flush until a minimum of 3 gallons has made it to the Lectra/San or Elecro-scan tank. Allow mixture to sit without activating the treatment system for at least 6 hours or a maximum of 24 hours. Flush toilet with plenty of clean water, 10 gallons or more, then resume use of system. (see Electro-scan and Lectra/San manual for information on disabling the treatment system.)

### **Systems with PURASAN:**

Close the clamp for tablet dispenser to stop water from going to tablet dispenser. If tablet dispenser is connected to fresh water solenoid, disconnect the solenoid. Flush the toilet 10 normal flushes to clear any residual chemicals. Mix solution using a 1:5 mix (1 part Cleans-Hoses, 5 parts clean water). Pour solution into toilet and flush until a minimum of 3 gallons has made it to the Purasan tank. Allow mixture to sit without activating the treatment system for at least 6 hours or a maximum of 24 hours. Flush toilet with plenty of clean water, 10 gallons or more, then resume use of system after opening clamp to tablet dispenser.

### **Systems with ManaGerm:**

Remove Bio-Sanitizer Tablets from tablet dispenser and pump out secondary tank to remove all residual chemical. Mix solution using a 1:5 mix (1 part Cleans Hoses, 5 parts clean water). Pour solution into toilet and flush until a minimum of 3 gallons has made it to the holding tank. Allow mixture to sit in the hoses for at least 6 hours or a maximum of 24 hours. Flush with plenty of clean water, 10 gallons or more, then pump out the ManaGerm tanks and restore operation of the system (see ManaGerm manual for startup instructions). See tank cleaning instructions for cleaning ManaGerm tanks.

### **Tank cleaning:**

Fill tank with a Cleans-Hoses solution. Mix 1 part Cleans-Hoses to 5 parts clean water. Make certain all air gaps have been filled. For best result provide some means of agitation for 12-18 hours with either a compressed air line or utility pump. Pump out tank(s), then flush tank(s) with clean water and pump out again, before resuming use of the system.



Diameter	Length In Feet			
	1	5	10	20
Inches				
1	0.04	0.2	0.4	0.8
2	0.16	0.8	1.6	3.2
3	0.37	1.84	4	8
4	0.65	3.26	7	13

**Example:** 1 ft length of 1.5" diameter hose capacity is approximately 0.10 gal US

**Example:** 2.5 ft of 1" diameter of hose capacity is also approximately 0.10 gal US