

# boiler and heating system cleaner

Spec Sheet #S00035  
July 2003

## System Cleaner



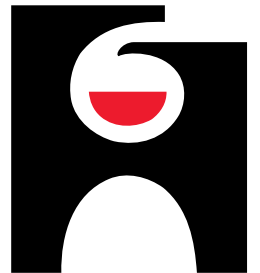
### DESCRIPTION

Specifically formulated to clean and condition steam and hot water boilers and hydronic heating systems. Contains silicone which protects pumps by lubricating seals; frees and lubricates zone valves. Prevents clogging of hot water valves and other flow valves and helps stop priming and foaming with a special anti-foam agent. Safe and simple to use. Promotes maximum boiler efficiency and saves fuel. Removes oil, sludge, loose rust and scale and prevents corrosion. No draining or flushing is necessary unless system is very oily, rusty, or in unusually dirty condition.

Safe for use in systems with rubber and plastic components. Compatible with any type of Hercules Cryo-tek anti-freeze, other propylene glycol based anti-freeze products and commonly used chemical additives and boiler treatment compounds.

### SIZES AND PACKING

STOCK NO.	SIZE	PACKING	WEIGHT/CASE
35206	1 qt.	12	27.7 lbs.
35211	1 gal.	6	58.0 lbs.
35216	5 gal.	1	45.4 lbs.



**HERCULES®**

specifications

boiler and heating  
system cleaner

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## System Cleaner



### APPROVALS AND LISTINGS

Not applicable.

### SPECIFIC USES

Use **Hercules boiler & heating system cleaner** to clean steam and hot water boilers and hydronic heating systems.

### SPECIFIC APPLICATIONS\*

**Hercules boiler & heating system cleaner** removes rust, scale and sludge. Prevents priming, foaming and surging of boiler and heating systems.

### PHYSICAL PROPERTIES

Specific gravity: 1.12  
 Solubility in water: Soluble  
 Boiling point: 212°F  
 Appearance/color/odor: Yellow color liquid. Slight ammine odor.

### WARNINGS OR CAUTIONS

- Read all cautions and directions carefully before using this product.
- For spills, soak up with absorbent material and sweep up.

### DIRECTIONS FOR USE

Shake well before using. Drain off a container of water after opening boiler drain. Look at contents of container to determine which of the following treatments is required:

#### Annual Treatment or Moderately Dirty Systems:

No flushing is needed. Close off all valving between boiler and zoning circuits. Drain off a sufficient quantity of water to allow space for the product. Lower the boiler pressure. Pour proper amount (See Quantity Table) through any convenient opening when pressure in boiler subsides. Reclose addition point and reopen circuit valving. Let product remain in boiler for entire season. Check boiler drain-off valve for removal of sludge or scale.

#### Oily, Surging or Rusty Systems:

**1)** Turn off heating unit. Close off zoning as described above. Pour first dose (See Quantity Table) into top opening (valve or plug). Fill with water to operating level. Replace valve or plug on top of boiler with an elbow with a piece of rubber hose attached. Place end of hose in metal receptacle. **2)** Fire boiler and raise water level until steam and/or water flush oil and floating contaminants away through hose. When water runs clear, shut off water and heat source and remove hose. **BE CAREFUL OF ESCAPING HOT WATER AND STEAM.** **3)** Drain boiler water, if necessary, to operating level. Add second dose of **boiler & heating system cleaner**. Replace elbow and hose with original valve or plug. Reopen circuit valving. Fire boiler to normal pressure and allow to operate one week. **4)** After a week, cut off heat and let boiler cool; open bottom drain-off valve and drain to remove heavy sediment. **5)** Clean all drain-cocks, gauges, gauge glasses, valves and replace. **6)** Refill boiler. Add another dose of **boiler & heating system cleaner** and allow to remain in boiler.

#### Dirty Hot Water Heating Boilers and Systems:

**1)** Turn off heat, drain boiler and entire system. Open all air vents. Pour **boiler & heating system cleaner** (See Quantity Table) into boiler through suitable opening. Remove relief valve if necessary. **2)** Replace relief valve, close vents, fill system with water. Vent each radiator until all air is removed from system. **3)** Fire system and operate for at least one hour. **4)** Cut off heat, let boiler cool. Drain sediment. Vent radiator. Refill with water if needed. **5)** Operate system. (If system is very dirty, repeat operation.)

#### Quantity Table

Use one quart for every 20 gallons of water in system. If capacity is unknown, use factor of 10 gallons of water per 250 sq. ft. of radiation rating of boiler.

### MATERIAL SAFETY INFORMATION

FOR MORE INFORMATION ON THIS PRODUCT, REQUEST MATERIAL SAFETY DATA SHEET (MSDS) #35

For Delivery by Fax	Call 1-800-942-4636
Internet	See MSDS section of <a href="http://www.herchem.com">www.herchem.com</a>
Mail	Contact Hercules at address below or any Hercules representative

This product is not classified as hazardous in accordance with OSHA 1910. 1200.

HMIS Hazard Warning 0-0-0-A.

#### INGREDIENTS CAS#

NJ-T.S.R. #31348300 5002P, 5043P

\* For special applications which may not be covered on this or other Hercules literature, please contact Hercules Technical Services Department by phone at 1-800-221-9330 or send a fax to 1-800-333-3456.



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