



UNITED

LABORATORIES

United 917 ESA Universal Descaler for Cooling Systems

is a blend of corrosion inhibitors, penetrants and United's-own Earth Smart® Acid for descaling metal and wood surfaces in cooling system applications. It removes rust, lime, hard water deposits, grease and oxidation from surfaces that could be harmed by strong acids such as muriatic, hydrochloric or sulfuric. Revolutionary formula is also safe for use on galvanized and zinc surfaces.

United 917 ESA Universal Descaler for Cooling Systems

can be left in the system for long periods of time (24 hours) to achieve maximum descaling with minimal corrosion and pitting. Built-in indicator dye notes when the descaling process is complete or when product is exhausted for ease of use without the need to test pH levels.

United 917 ESA Universal Descaler for Cooling Systems features Earth Smart® Acid Technology:

- That dissolves calcium carbonate, lime and scale two to three times faster than phosphoric acid products.
- That is much milder to steel, aluminum and skin than traditional acids used in similar products.
- That is phosphate-free and contains no VOCs.

DIRECTIONS FOR USE:

1. Shut off all chillers and heat-producing equipment.
2. Add 4-10 gallons of **United 917 ESA Universal Descaler for Cooling Systems** to the system water for each 100 gallons (4-10 liters for each 100 liters) of estimated capacity.
3. Allow the solution to circulate throughout entire system as normal.
4. Monitor color of system water every 30 minutes...

• **In smaller systems (less than 1,000 gallon total capacity)** – If indicator dye/system water remains pink after 4 hours of circulation, descaling process is complete. If indicator dye/system water turns clear prior to this, repeat initial dosage of **United 917 ESA Universal Descaler for Cooling Systems** and continue to monitor until indicator dye/system water remains pink throughout the entire descaling process.

• **In larger systems (greater than 1,000 gallon total capacity)** – If indicator dye/system water remains pink after 8 hours of circulation, descaling process is complete. If indicator dye/system water turns clear prior to this, repeat initial dosage of **United 917 ESA Universal Descaler for Cooling Systems** and continue to monitor until indicator dye/system water remains pink for throughout the entire descaling process.

5. Once the descaling process is complete, shut off the recirculating pump and drain the sump basin.

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ESA Universal Descaler for Cooling Systems Featuring Earth Smart® Acid Technology

KEEP OUT OF REACH OF CHILDREN.

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUCION AL USUARIO:

Si usted no puede leer Ingles, pregunte a alguien que le traduzca esta etiqueta para usted antes de uso.

Manufactured and Sold Exclusively By:
UNITED LABORATORIES, INC.
 320 37th Avenue • St. Charles, IL 60174
 1-800-323-2594 • www.unitedlabsinc.com

DIRECTIONS FOR USE: (Cont'd)

6. Immediately refill the system with the bleed valve open. Once bleed-off is clear, close the bleed valve and allow the system to fill to normal operating level.
7. Turn on the recirculating pump and put system into normal service. Add recommended initial dose of United 316 TOWERMATE or United 323 Closed Loop Treatment. Ask your United representative to recommend which is best for your system.

IF FOAMING IS A PROBLEM: Use United 53 Industrial Defoamer per label instructions.

FOR EQUIPMENT IN FOOD PLANTS: A thorough flush with potable water is required when cleaning is completed, before returning equipment to service.

CAUTION:

This product is corrosive to the eyes. It can cause skin irritation. Harmful if swallowed. Do not mix with other chemicals or cleaner as toxic fumes may be formed.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush with cool water for at least 15 minutes. Hold eyelids apart to ensure thorough rinsing of the entire surface of the eye and lids with water. Call a physician or poison center.

SKIN: Wash with soap and water and remove contaminated clothing. If irritation persists, call a physician or poison center.

INHALATION: Remove to fresh air. Apply CPR, if needed. Call a physician or poison center immediately.

IF SWALLOWED: DO NOT INDUCE VOMITING. Call a physician or poison center immediately. Drink large amounts of water. If vomiting occurs give fluids. Never give anything by mouth to an unconscious person.

DO NOT USE THIS PRODUCT on magnesium or similar surfaces. Always pre-test unknown surfaces for compatibility before using.

An MSDS for this product is available through United's website, www.unitedlabsinc.com, providing 24 hour access. Please read the MSDS carefully and follow all directions when using or handling this product. Never reuse empty containers. Incompatible materials may adversely react.

HMIS® III CODE: 0=MINIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE PERSONAL PROTECTION INDEX: Gloves and Goggles	HEALTH	0
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	n&p