



Cooling Tower Descaler



Caution
Keep Out Of Reach
Of Children.
See Side Panel For
Additional Precautionary
Statements.

Net Contents:

Cooling Tower Descaler is a blend of corrosion inhibitors, penetrants and a safer acid alternative 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 the more common strong acids such as muriatic, hydrochloric or sulfuric. This formula is also safe for use on galvanized and zinc surfaces.

Cooling Tower Descaler 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.

Formulated with newer, environmentally friendly acid:

- 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 product 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 product 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 product 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.

Batch#:

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.

IF FOAMING IS A PROBLEM: A defoamer may be added, following the defoamer's instructions.

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

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

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.

INGESTION: 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.

An MSDS for this product is available through AMRO's website at www.amroproducts.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: SPECIFIC HAZARDS:

HEALTH-0 FLAMMABILITY-0 PHYSICAL HAZARD-0

HMIS® III CODE: 0=MINIMAL 1=SLIGHT

2=MODERATE 3=SERIOUS 4=SEVERE

PERSONAL PROTECTION INDEX: Gloves & Goggles



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