



Product Bulletin

Product Type	Equipment descaler	
Description	Citric acid-based liquid concentrate for removing calcium carbonate and other scales in boilers, cooling towers and other equipment	
Dosage	Dilute 1:25 with water	
Principal Users	Boilers and cooling towers that collect scale and deposits from water hardness minerals	
Features	<ol style="list-style-type: none"> 1) Convenient, pourable liquid concentrate 2) Biodegradable 3) Safe for use with stainless steels, mild steel, brass, copper, aluminum, galvanized steel, aluminum, Teflon, and all elastomeric seals and gaskets common in water handling equipment 4) Removes 5.1 lbs of calcium carbonate scale per gallon of concentrate 5) Does not need heating during cleaning, but works faster at elevated temperatures 	
Directions	Add the calculated amount of product to the system through any openings, slug feeder or by pumping. Typically, 8 – 16 hrs of circulation are required for complete cleaning. After cleaning and draining, the system should be rinsed to remove loose material and excess product.	
Characteristics	Physical form	Clear, colorless, viscous liquid
	Density at 25C	1.41 (11.7 lbs/gal)
	pH of concentrate	2.1
	pH of 1% solution	2.90
	Active ingredients	Citric acid, surfactant
	Solubility	Completely water-soluble
Precautions	Avoid contact with skin and eyes. Do not take internally. Keep from freezing. Keep out of reach of children. Goggles recommended when handling. Non-flammable. Consult MSDS before handling.	
Packaging	<p>The fourth digit of the product number designates the container size:</p> <p>CITRAM™ -1 - 5 gallon polyethylene pail CITRAM™ -2 - 30 gallon polyethylene drum CITRAM™ -3 - 55 gallon polyethylene drum</p>	

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