

Citranox™

Acid Cleaner and Detergent

(Rev. 12/6/18)



- Concentrated to save you money
- Phosphate free, biodegradable and readily disposable
- Penetrating wetting power to save you time
- Free rinsing to give you reliable results and no interfering residues
- Use to pass your cleaning validation tests for lab accreditation and plant inspection approval
- Contains acid ingredients for high performance removal of metal oxides, salts and inorganic residues combined with full detergent capability

CITRANOX™, USED TO CLEAN:

Dairy equipment, laboratory ware, sampling apparatus, lab stills, clean rooms, optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal forgings, stampings and castings, industrial parts, pipes, tanks, boilers and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified. Recommended for laser chiller cleaning and maintenance to remove scale.

CITRANOX™, USED TO REMOVE:

Scale, metal oxides, metal complexes, trace inorganics, milkstone, soil, grit, buffing compound, grime, grease, fats, oils, particulates, deposits, chemical and solvents.

CITRANOX™, SURFACED CLEANED:

Corrosion inhibited formulation recommended for glass, metal, stainless steel, porcelain, ceramic, plastic, rubber and fiberglass. Can be used on soft metals such as copper, bronze, aluminum, zinc and magnesium if rinsed promptly. Corrosion testing may be advisable.

CITRANOX™, CLEANING METHOD:

Soak, brush, sponge, cloth, ultrasonic, flow through clean-in-place. Will foam—not for spray or machine use.

CITRANOX™, DIRECTIONS:

Make a fresh 1 - 2% solution (3 - 5 Tbsp. per gal., 1 1/4 - 2 1/2 oz. per gal. or 10 - 20 ml per liter) in cold, warm or hot water. If available, use hot water. For difficult soils, raise water temperature and use more detergent. Clean by soak, circulate, wipe or ultrasonic method. Wear protective gloves and eyewear. Not for spray machines, will foam. RINSE THOROUGHLY—preferably with running water. For critical cleaning, do final or all rinsing in distilled, deionized or purified water. For food contact surfaces, rinse with potable water. Used on a wide range of glass, ceramic, plastic and metal surfaces. Corrosion testing may be advisable.

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PHYSICAL DATA

pH of 1% solution
Specific gravity (g/ml)
Density (lbs./gal.)
Flash Point (degrees F)

TYPICAL VALUE

2.5
1.10
9.15
None

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Phosphate Content (as Phosphorus)	0%
Organic Carbon (% calculated w/w)	17%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	32
Color: Pale Yellow	
Form: Liquid	
Solubility in Water: Completely soluble in all proportions	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: High Foaming	
Shelf Life: Two years from the date of manufacture	

CHEMICAL DESCRIPTION:

Citranox contains a blend of organic acids, anionic and non-ionic surfactants and alkanolamines. Citranox is phosphate free.

CLEANING VALIDATION METHODS:

Test a parameter of rinse water before and after rinsing the cleaned surface, or test the clean surface. No significant change in the parameter indicates no detectable residue. Parameters measured include: pH, conductivity, UV, TOC, HPLC, anionic surfactant concentration using inexpensive detergent water testing kits, surface tension, and surface analysis.

HEALTH SAFETY INFORMATION:

OSHA Hazardous Ingredients: None

RCRA Hazard Class: Non-hazardous

EPA Priority Pollutants: None

DOT Hazard Class: Non-hazardous

Flammability: Non-flammable

Latex Content: None in detergent, packaging materials or adhesives.

Oral Toxicity: LD50 > 5000 mg/kg oral rat

No ingredient defined as an oral toxicant by OSHA

Eye Irritation: Serious potential for eye irritation if not rinsed

Inhalation Toxicity: Non-irritating

VOC Content: 0%

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Citronox are listed in TSCA inventory. USDA NSF cat A3

CONTACT INFORMATION:

American MasterTech Scientific
 1330 Thurman St.
 Lodi, CA 95240 USA
 Tel 800 860 4073
 Fax 209 368 4136
www.americanmastertech.com

StatLab
 2090 Commerce Drive
 McKinney, TX 75069 USA
 Tel 800 442 3573
 Fax 972 436 1369
www.statlab.com