

**Critical-cleaning detergents
for laboratory, healthcare and
industrial applications**

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**24 Hour Emergency Number
(CHEM-TEL) (800) 255-3924**

(e-mail) cleaning@alconox.com

(URL) <http://www.alconox.com>

- distributors
- technical information
- free samples
- new developments



Citranox®

Acid Cleaner and Detergent

- 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

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.

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

Surfaces 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.

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

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.

Available in Convenient Sizes:

	Alconox Cat. #
Case 4 x 1 Gallons	1801
15 Gal. Drum	1815
55 Gal. Drum	1855
1 gal. makes 50 gal. cleaning solution	



CITRANOX is available from leading laboratory, hospital, clinical and industrial suppliers. For a faxed distributor list call the Alconox fax information service at (212) 532-4040, press 2 and request Document #103. Write or call Alconox, Inc. today for FREE samples and information. Let Alconox solve your cleaning problems.

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DOCUMENT #128

CITRANOX TECHNICAL BULLETIN

PHYSICAL DATA

pH of 1% solution

Specific gravity (g/ml)

Density (lbs./gal.)

Flash Point (degrees F)

Phosphate Content (as Phosphorus)

Organic Carbon (% calculated w/w)

Fragrance Content

Surface Tension 1% Sol'n (Dyne/cm)

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: Approximately one year in a sealed container

TYPICAL VALUE

2.5

1.10

9.15

None

0%

14-19%

0%

32

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. No significant change in the parameter indicates no detectable residue. Parameters measured include: pH, conductivity, resistance, spectrographic methods, sodium concentration, phosphorus concentration, anionic surfactant concentration using inexpensive detergent water testing kits, surface tension, and surface analysis. Call the Alconox fax information service at (212) 532-4040, press 2 and request Document #151 for more information.

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 > 500 mg/kg)

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 CITRANOX are listed in TSCA inventory.

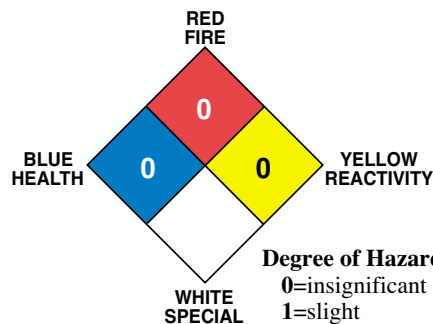
Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). Material Safety Data Sheet available.

Contact Alconox, Inc. for purchase specifications. Information presented is typical. Not to be taken as specifications.

While the information in this report should not be considered to be a product warranty, we urge you to investigate, test and verify the suitability of Alconox detergents for your specific application. We, of course, can not give permission to use, or recommend the use of, our detergents where they infringe patents. No representation or warranty is made as to the safety of products or materials mentioned under the Federal Food Additives Amendment of 1958.

National Fire Protection Association 704 labeling:



NJTSRN: 1800