



Critical-cleaning detergents for laboratory, healthcare and industrial applications

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

- distributors
- technical information
- free samples
- new developments

DOCUMENT #0420

CITRAJET TECHNICAL BULLETIN



Citrajet®

Low-foaming Liquid Acid Cleaner

- Ideal for use as acid wash or rinse
- Concentrated to save you money
- Phosphate free, biodegradable and readily disposable
- Low foaming acid cleaner and rinse for high performance results from your cleaning machinery
- Use to pass your cleaning validation tests for lab accreditation and plant inspection approval
- Combines acid and detergent ingredients to remove metal oxides, salts and inorganic residues

Used to clean: Laboratory ware, sampling apparatus, dairy equipment optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal forgings, stampings and castings, industrial parts, pipes, tanks, boilers and reactors. Suitable 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, amphoteric peptides, 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: : Laboratory warewashers, dishwashers, washer-sterilizers, washer-sanitizers, cart washers, spray washers, electrocleaning, ultrasonic cleaners flow through clean-in-place and manual cleaning if proper skin and eye protection is used.

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	2001
15 Gal. Drum	2015
55 Gal. Drum	2055
1 gal. makes 50 gal. cleaning solution	



CITRAJET is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit our Dealers Section of the website. To request FREE samples, visit our Sample Request Page, write or call Alconox, Inc. today.



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PHYSICAL DATA

	TYPICAL VALUE
pH of 1% solution	2.5
Specific gravity (g/ml)	1.10
Density (lbs./gal.)	9.15
Flash Point (degrees F):	None
Phosphate Content (as Phosphorus)	0%
Other Phosphorous compounds (as Phosphorous)	less than 1%
Organic Carbon (% calculated w/w)	14-19%
Fragrance Content	0%
Surface Tension 1% Solution (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: Low to Non- Foaming	
Shelf Life: Approximately one year in a sealed container	

Chemical Description

CITRAJET contains a blend of organic acids and surfactants. Citrajet 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, total organic carbon, surface tension, and surface analysis.

To get a bulletin on cleaning validation method references for Alconox, Inc. detergents, go to the Pharmaceutical Cleaning Validation References page in the TECH INFO section of our website at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

RCRA Hazard Class: Non-hazardous

EPA Priority Pollutants: None

DOT Hazard Class: Non-hazardous

Flammability: Non-flammable

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

Latex Content: no latex ingredients or latex in packaging

Carcinogenicity:

NTP = No IARC = No OSHA = No

VOC Content: 0%

All ingredients in CITRAJET are listed in TSCA inventory.

Precautions:

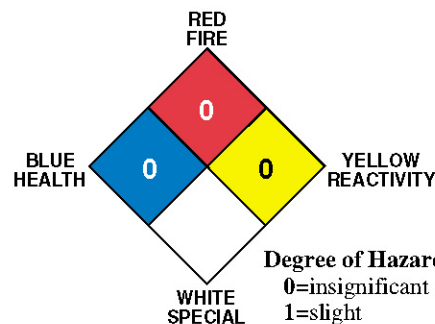
No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). Material Safety Data Sheet available at www.alconox.com, or call fax-on-demand at 914-948-4040, press 3 and get Doc #0320.

Contact Alconox, Inc. for purchase specifications. Typical data is not a specification.

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.

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National Fire Protection Association 704 labeling:



Degree of Hazard:
0=insignificant
1=slight
2=moderate
3=high
4=extreme

NJTSRN: 2000