

INTERNATIONAL SALES ACCESS* PROGRAM



* ALCONOX CRITICAL CLEANER EVALUATION & SALES SUPPORT

Key Contacts

Customer Service

- 914-948-4040 ext 159
- 914-948-4040 ext 163
- cleaning@alconox.com

Technical Support

- 914-948-4040 ext 151
- 914-948-4040 ext 160
- tdowds@alconox.com
- mmclaughlin@alconox.com

Learn how to:

- Recommend an Alconox Cleaner – In 60 seconds or Less
- Meet your Sales Plan
- Close the Sale

Sales Support Documents

Available at www.alconox.com or call:

- Certificate of Compliance
- Certificate of Analysis with Lot #
- Material Safety Data Sheets
- Detergent Technical Bulletins
- Inhibitory Residue Tests

Why Sell Alconox Brand Cleaners?

- **Technical Support** – Using our website, literature and email/phone support contacts, a specific Alconox brand can be reliably matched to nearly every critical cleaning process or application.
- **Quality** – All Alconox products are manufactured per U.S. FDA cGMP standards with consistent formulations, ingredients disclosure, and validation support.
- **Economy** – Our cleaners are concentrated for economical shipping. This also results in a low cost per diluted gallon.

LOOK INSIDE TO FIND:

- Competitor Cross Reference
- Detergent Selection Guide
- Pricing Information
- Multinational Customer References

Alconox, Inc.

The Leader in Critical-CleaningSM

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T A B L E O F C O N T E N T S

SECTION 1 INTERNATIONAL DEALER TOOLS	Page
Alconox Critical Cleaner Evaluation & Sales Support	1.1
Competitor Cross-Reference	1.1
Multinational Customer References	1.2
Types of Cleaner Used in Different Labs	1.3
Website Support for Dealers	1.4
International Language Support	1.4
Detergent Selection Guide	1.5
Case Study: Selling Into the Global Pharmaceutical Market	1.7

SECTION 2 TECH INFO	Page
Technical Bulletins	2.1
Alconox	2.3
Liquinox	2.5
Tergazyme	2.7
Alcojet	2.9
Alcotabs	2.11
Detojet	2.13
Detergent 8	2.15
Citranox	2.17
Luminox	2.19
Citrajet	2.21
Solujet	2.23
Tergajet	2.25

SECTION 3 PRICING	Page
Alconox Price List	3.1
International Dealer Discount Schedule and Terms	3.2

* ALCONOX CRITICAL CLEANER EVALUATION & SALES SUPPORT

To make it easier for you to recommend the right detergent for the right application, you need to know the answers to a few simple questions. It's an easy, painless process that takes 60 seconds or less.

WHAT TO ASK

- 1. What cleaner are you using now?** The “Competitor Cross Reference” table at right shows you an equivalent or better Alconox brand for the same application. Keep in mind that 90% of all laboratory cleaning applications can be handled by a few Alconox brands, available in both powder (lowest cost) and liquid (easiest to use).
- 2. What are you cleaning?** Determine the type of material being cleaned (glass, metal, ceramic, plastic, etc.) And,
- 3. How are you cleaning?** The “Detergent Selection Guide” on page 1.5 will help you recommend the right Alconox cleaner for each type of industry.

CLOSING THE SALE

Because Alconox cleaners are field-proven, they practically sell themselves. Be sure to mention **Price!** Alconox brands are not only the preferred cleaners in both laboratory and industrial applications, but because they are **concentrated**, they save your customers money. See Alconox price list on page 3.1.

DETERGENTS SALES BY MACHINE TYPE

Size of washing machine	Annual USD\$ in US Sales of Detergents
Small washing machine	\$300
Medium washing machine	\$2,000
Large washing machine	\$10,000

COMPETITOR CROSS REFERENCE

Competing Brand to compare to a high quality Alconox brand	Alconox brand to substitute for comparable or superior cleaning	L or Kg of Competitor equal 1 L or Kg of Alconox Brand	Competitor Brand is Registered Trademark of
7X	Liquinox	10	ICN
7X-o-matic	Alcojet	2	ICN
Branson GP or OC	Liquinox	10	Branson
Branson OR	Citranox	3	Branson
CIP 100	Solujet	2	Steris
CIP 150	Detojet	1	Steris
CIP 200 or 220	Citrajiet	1	Steris
Contrad 70	Liquinox	5	Decon Laboratories
Cosa CIP 72	Citrajiet	1	Ecolab
Cosa CIP 90 or 92	Solujet	1	Ecolab
Cosa CIP 95NA	Detojet	1	Ecolab
Decomatic	Solujet	1	Decon Ltd
Decon 90 or 75	Liquinox	2	Decon Ltd
Decon Acid Rinse	Citrajiet	1	Decon Ltd
Deconex 12 PA or 15 PF.	Liquinox	2	Borer Chemie
Deconex 21 LIQ	Tergajiet	1	Borer Chemie
Deconex 22 PF, 21 AGK, or 21 S	Solujet	1	Borer Chemie
Dridecon	Tergajiet	1	Decon Ltd
Edisonite, Edisonite Super	Alconox	2	Brand Gmbh
Extran 300	Liquinox	1	Merck Kqaa
Extran AP 11	Alcojet	1	Merck Kqaa
Extran AP 12 or 41	Tergajiet	1	Merck Kqaa
Extran AP 14 or 15	Solujet	1	Merck Kqaa
Extran AP 21 or 22	Citrajiet	1	Merck Kqaa
Extran MA 01, 02, 03	Liquinox	2	Merck Kqaa
Extran MN 01	Tergajiet	2	Merck Kqaa
Hyclin	Alconox	3	Hycl
LancerAcid	Citrajiet	1	Lancer
LancerClean	Solujet	1	Lancer
Micro 90	Liquinox	2	International Products
Mucasol	Liquinox	1	Brand Gmbh
Neodisher A8, F, GK, LA, or UW	Tergajiet	1	Dr Weiggert GmbH
Neodisher FLA or FT	Solujet	1	Dr Weiggert GmbH
Neodisher N or Z	Citrajiet	1	Dr Weiggert GmbH
Neutracon	Liquinox	2	Decon Ltd
Qualilab LR-NZ, LR-NP, or GT-N	Citrajiet	1	Merck Kqaa
Qualilab LR-OP, LR-F, or GSM	Solujet	1	Merck Kqaa
Qualilab LR-P	Tergajiet	1	Merck Kqaa
RBS 35	Liquinox	1	Pierce Chemical
RBS solid	Alcojet	2	Pierce Chemical
RBS-PF	Liquinox	1	Pierce Chemical
Sparkleen	Alconox	1	Fisher International
Sparkleen 2	Alcojet	2	Fisher International
Teepol Multipurpose	Liquinox	2	Diversey

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MULTINATIONAL CUSTOMER REFERENCES

Customer	Product validated	Country of validation	Cleaning application if known
3M Pharmaceuticals	LIQUINOX	USA & Mexico	Product contact surfaces
3M Pharmaceuticals	ALCONOX	USA	Device contact surfaces
Abbott	ALCONOX LIQUINOX	USA	Rubber closures for injectable Product contact surfaces
ALK-Abelló	LIQUINOX	Denmark	Utensils in aseptic and bulk production
ALZA Corporation	LIQUINOX	USA	Production equipment
Amgen Inc.	TERGAZYME	USA	Clean bioreactors and separation equipment
Aventis Behring	LIQUINOX	USA	Product contact surfaces
Bard Endoscopic	LIQUINOX	USA	Process oils off stainless steel and titanium medical device
Bausch & Lomb Incorporated	ALCOJET	USA	Optical medical device contact surface
Baxter Healthcare	ALCONOX LIQUINOX	USA	Alconox-rubber closures for injectable packaging
Bayer	TERGAZYME ALCONOX	USA	Ultrafiltration membranes for separations Product contact surfaces
Boehringer Ingelheim	ALCONOX	USA	Product contact surfaces
Boston Scientific	ALCONOX	USA	Medical device contact surface
Bristol-Meyers Squibb	ALCONOX SOLUJET/ CITRAJET	Egypt, USA & Indonesia USA	Liquid mixing tanks and filling equipment Product contact surfaces
Celgene Corporation	SOLUJET	USA	Product contact surfaces
CIBA Vision Batam	LIQUINOX	Indonesia	Product contact manufacturing surfaces and equipment
Dade-Behring	DETOJET	USA	Product contact surfaces
Dupuy Spine	ALCONOX	USA	Implant components
Ethicon Endo-Surgery, Inc. (J&J)	ALCONOX	USA	Implant components
Fort Dodge Animal Health	TERGAZYME	USA	Product contact surfaces
Genentech, Inc.	LIQUINOX ALCONOX TERGAZYME	USA	Liquinox – bioreactors, Alconox – hand tools Tergazyme – filters
Gilead Sciences, Inc.	DETOJET	USA	Product contact surfaces
GlaxoSmithKline labs	TERGAZYME ALCONOX	Ireland, Italy, France & USA	Tablet coating pans and R&D labs
IVAX (TEVA)	LIQUINOX	USA	Product contact manufacturing

Customer	Product validated	Country of validation	Cleaning application if known
JMI-Daniels Pharmaceutical	SOLUJET	USA	Product contact manufacturing surfaces and equipment
Johnson & Johnson	LIQUINOX ALCONOX	USA USA	Medical device manufacturing Medical device surfaces
L'Oréal	ALCONOX	USA	Cosmeceutical manufacturing equipment
Nabi Biopharmaceuticals	ALCOJET	USA	Product contact surfaces
Novartis	LIQUINOX	USA	Vaccination manufacturing equipment
Novopharm Ltd.	SOLUJET	Canada	Product contact manufacturing surfaces and equipment
Ortho-McNeil	DETOJET	Puerto Rico	Product contact manufacturing
Pfizer Inc.	CITRANOX	Canada	Product contact manufacturing surfaces and equipment
Pfizer-Pharmacia	LIQUINOX	USA	Liquid mixing tanks and filling equipment
Pfizer-Pharmacia	TERGAZYME	Sweden	Product contact manufacturing surfaces and equipment
Pharmacia	ALCONOX	USA	Clinical packaging area
Proctor & Gamble	LUMINOX	USA	Product contact surfaces
RTP Pharma	LIQUINOX	USA	Product contact surfaces
Schwarz Pharma	SOLUJET CITRAJET	USA	Product contact surfaces
Smith & Nephew Inc.	LIQUINOX DETERGENT 8	USA	Medical device manufacturing Electrical components
Stryker Corporation	LIQUINOX CITRANOX	Switzerland & USA	Implantable medical devices cleaning
SuperGen Inc.			
Tasmanian Alkaloids Pty Ltd.	CITRANOX	Tasmania, Australia	Tablet equipment
Teva Pharmaceutical Industries Limited	LIQUINOX CITRANOX	USA & Canada	Product contact manufacturing surfaces and equipment
Thoratec Laboratories	LIQUINOX	USA	Product contact surfaces
Wallace Pharmaceuticals	LIQUINOX	USA	Tablets and liquid process equipment
Wyeth Pharmaceuticals	ALCONOX LIQUINOX ALCOJET	USA	Product contact manufacturing surfaces and equipment
Zila Pharmaceuticals	CITRANOX	USA	Product contact surfaces
ZLB Bioplasma AG	LIQUINOX	Switzerland	Blood plasma fractionation equipment and utensils

TYPES OF CLEANER USED IN DIFFERENT TYPES OF LABS

Types of cleaner used in different types of labs	Phosphate Free Cleaners			General Purpose Cleaners			Trace metal
	Machine			Machine			Machine
	TERGAJET	SOLUJET	CITRAJET	ALCOJET	DETOJET	CITRAJET	CITRAJET
Lab Alconox Brand ->	Alkaline	Alkaline	Acid/Rinse	Alkaline	Alkaline	Acid/Rinse	Liquid
	Powder	Liquid	Liquid	Powder	Liquid	Liquid	Acid
Environmental trace analysis (2)	●	●	●				
Microbiology	●	●	●				
Wastewater (2)	●	●	●				
Water and Drinking Water (2)	●	●	●				
Biochemistry/Biology				■	■	■	▲
Chemistry, Analytical				■	■	■	▲
Food				■	■	■	▲
Forensics				■	■	■	▲
Genetics				■	■	■	▲
Hospital/Medical Laboratory				■	■	■	▲
Materials Testing				■	■	■	▲
Microbiology				■	■	■	▲
Nuclear (radioisotopes)				■	■	■	▲
Pathology(1)				■	■	■	▲
Petrochemicals				■	■	■	▲
Pharmaceuticals				■	■	■	▲
Pharmacology				■	■	■	▲
QA/QC				■	■	■	▲
Toxicology				■	■	■	▲

(1) Requires College of American Pathology (CAP) Questionnaire Residue Detection method from www.alconox.com

(2) Requires Inhibitory Residue Test data to comply with State and NLAC standards from COA and Inhibitory Residue test at www.alconox.com

WEBSITE SUPPORT FOR DEALERS

YOU CAN FIND MANY HELPFUL SALES TOOLS AT OUR WEBSITE, WWW.ALCONOX.COM

Helpful Links to Product Data

- Links to catalogs and user manuals including PDF versions of these documents.
- For each detergent you can get technical bulletins, certificates of analysis, certificates of compliance, safety data sheets, inhibitory residue tests, and validation references.

Industry Applications/Issues

- For each industry, there is a webpage outlining the key concerns and which detergents are used for each purpose.

The screenshot shows the Alconox website homepage. At the top, there is a navigation bar with language options: 中文, FRANÇAIS, DEUTSCH, ESPAÑOL. Below this is a search bar with a 'Go!' button. To the right of the search bar is a section for 'Technical Information & Certificates' with dropdown menus for 'Select Cleaner/Cat. #' (set to 'Alconox') and 'Select Document' (set to 'MSDS Safety Data Sheet'). Further right is a 'General Cleaner Info' section with links for 'Pharmaceutical Cleaning Validation', 'CAP Residue Detection Methods', 'Catalogs', and 'User Manual'. A horizontal navigation menu includes links for Home, Get Sample, Ask Alconox, Locate a Dealer, Literature by Mail, Site Map, and About Us. On the left side, there is a 'CUSTOMER RECOMMENDATIONS' sidebar with a list of industries: Buy Online, Healthcare, Pharmaceutical, Biotechnology, Medical Device, Laboratory, Environmental, Food & Dairy, Electronic, Metalworking & Precision Mfg., Nuclear, Optical, Cosmetic, Filter, and Tattoo. The main content area features an 'Important Product Availability Notice - No Discontinued Products' with a link to 'Click Here for More Information'. Below this is a central image of various cleaning tools and products, with labels for 'Dealers', 'Customers', and 'Products'. At the bottom of the main content area, there is a 'Book, Sample, & Mug Offer' featuring 'THE Aqueous Cleaning Handbook'. The footer contains the company address: 30 GLENN STREET, SUITE 309 WHITE PLAINS, NY 10603 USA, phone number (914) 948-4040, fax number (914) 948-4088, and a 'CONTACT US' button.

Information for Dealers

- Click "Dealers" on our home page, or go to www.alconox.com/static/section_dealers/dealers.asp
- Suggested catalog copy
- Competitor brand cross references
- Typical types of customers along with their typical cleaning concerns and how to solve them
- A description of the typical selling process for Alconox cleaners
- An explanation of how to calculate the economical cost per diluted gallon of Alconox cleaners
- A section to download photographs, logos and PDFs of literature
- A list of items to cross sell along with Alconox cleaners

Free Samples and Literature for Dealers

When you place an order, you can also request samples and catalogs. These will be shipped to you with your order. We can provide any reasonable number of samples or catalogs. If you supply us with an electronic high resolution file of your logo, we can often customize our catalogs and put your logo and contact information on them. On occasion, we also provide support for dealer advertising programs.

International Language Support

To present literature in the preferred language of your clients, you can access international language support in French, Spanish, German and Chinese. From the Alconox home page, you can access links to technical bulletins and safety data sheets in each language. These documents are in PDF format and can be downloaded to your computer.

DETERGENT SELECTION GUIDE

Application Key Concerns	What Are You Cleaning?	How Are You Cleaning?	Recommended Cleaner		
			Powder	Liquid	
Healthcare/Veterinary Effective preparation for sterilization, longer instrument life. Reduce waste.	Surgical, anaesthetic, and examining instruments and equipment. Catheters and tubes.	Manual, Ultrasonic, Soak Machine washer, sani-sterilizer	ALCONOX ALCOJET	LIQUINOX DETOJET	
	Blood, body fluids, tissue on instruments.	Manual, Ultrasonic, Soak	TERGAZYME		
Pharmaceutical/Medical Device/Biotechnology Passing cleaning validation for FDA good manufacturing practices. For stainless steel, glass, plastic, elastomer cleaning.	Titanium dioxide, petrolatum, oils, emulsions, ointments, carbopols, lacquers, zinc oxides, proteins, steroids, alcohols, sugars, and Eudragit* (L/S/L30/D55/NE30D) polymers.	Manual, Ultrasonic, Soak Machine washer, power wash, CIP	ALCONOX ALCOJET TERGAJET (p-free)	LIQUINOX SOLUJET	
	Inorganic residues, salts, metallics, pigments. Eudragit* (E/RL/RS/E100) polymers, amphoteric, coatings, amines, ethers, starches, alkaloids.	Manual, Ultrasonic, Soak Machine washer, power wash, CIP		CITRANOX CITRAJET	
	Protein/ferment residues. R/O, U/F membranes.	Manual, Ultrasonic, Soak	TERGAZYME	SOLUJET	
	Glass, metal, plastic labware, ceramics, tissue culture, porcelain, clean rooms, animal cages, bioreactors, tubing, benches, safety equipment.	Manual, Ultrasonic, Soak Machine, power spray, labware washer, washer-sterilizer, cage-washers	ALCONOX ALCOJET TERGAJET (p-free)	LIQUINOX (p-free) DETOJET SOLUJET (p-free)	
Laboratory/Environmental Reproducible results, no interfering residues, extending equipment life. Keep laboratory accreditation. Laboratory safety.	Tubes, reusable pipets.	Siphon-type washer-rinsers		ALCOTABS (tablet)	
	Microbiology, water lab, and environmental sampling. Phosphate-sensitive labware. EPA procedures. (Acid for water rinse cycle.)	Field, Manual, Ultrasonic, Soak Machine washer, labware washer	TERGAJET TERGAJET	LIQUINOX SOLUJET-base CITRAJET-acid	
	Radioactive equipment/contaminants.	Manual, Ultrasonic, Soak	ALCONOX	LIQUINOX	
	Stopcock grease.	Machine washer, warewasher	ALCOJET	SOLUJET	
	Trace metals, metal oxides, scale, salts, starches, amines.	Manual, Ultrasonic, Soak Machine washer, warewasher		CITRANOX CITRAJET	
	Proteinaceous soils, bio-wastes, tissue, blood and other body fluids, fermentation residues.	Manual, Ultrasonic, Soak Glassware washer	TERGAZYME ALCOJET	SOLUJET	
	Metalworking/Precision Manufacturing/Optics Clean parts, avoid volatile solvents, strong acids, and other hazardous chemicals.	Glass, ceramic, porcelain, stainless steel, plastic, rubber. Oils, chemicals, particulates.	Manual, Ultrasonic, Soak Machine washer, power wash	ALCONOX ALCOJET TERGAJET (p-free)	LIQUINOX DETOJET SOLUJET (p-free)
		Aluminum, brass, copper, and other soft metal parts. Oils, chemicals, particulates (acid for oxides, salts, buffing compounds).	Manual, Ultrasonic, Soak Parts washer, power wash	ALCONOX TERGAJET (p-free) ALCOJET TERGAJET (p-free)	LIQUINOX-base CITRANOX-acid SOLUJET-base CITRAJET-acid
Inorganics, metallic complexes, trace metals and oxides, scale, salts, metal brightening.		Manual, Ultrasonic, Soak Parts washer, power wash		CITRANOX CITRAJET	
Silicone oils, mold-release agents, buffing compounds.		Manual, Ultrasonic, Soak Parts washer, pressure spray	ALCONOX ALCOJET	CITRANOX SOLUJET	
Delicate substrates/neutral for waste.		Manual, Ultrasonic, Soak Machine wash, pressure spray		LUMINOX (Neutral pH) DETERGENT 8	
		Electronics Avoid conductive residues, avoid CFCs, pass cleaning criteria.	Circuit boards, assemblies, screens, parts, conductive residues, resins, rosins, fluxes, particulates, salts.	Manual, Ultrasonic, Soak Machine washer, power spray board and screen washers	
Ceramic insulators and components.	Manual, Ultrasonic, Soak Parts washers		ALCONOX ALCOJET	LIQUINOX SOLUJET	
Food and Dairy Avoid interfering residues on food-contact equipment.	Stainless steel, food-contact equipment.	Manual, Ultrasonic, Soak Machine wash, pressure wash, CIP	ALCONOX ALCOJET	LIQUINOX DETOJET	
	Oxides, scale, trace metals, salts, milkstone.	Manual, Ultrasonic, Soak Machine wash, pressure wash, CIP		CITRANOX CITRAJET	
		Filter membranes. Proteins/biofouling.	Manual, Ultrasonic, Soak	TERGAZYME	
	Cosmetics Avoid cross-contamination.	Product contact surfaces (acids for pigments and salts).	Manual, Ultrasonic, Soak Parts washers, power spray	ALCONOX ALCOJET	LIQUINOX-base CITRANOX-acid SOLUJET-base CITRAJET-acid
Nuclear Avoid waste interference		Reactor cavities, pipes, tools, protective equipment.	Manual, Soak, Spray	DETERGENT 8	

p-free =phosphate-free

* Eudragit is a © registered trademark of Roehm GmbH & Co.

To purchase detergent contact your laboratory, healthcare, or industrial supply company.

HAVE AN UNUSUAL OR DEMANDING APPLICATION? WE'RE HERE TO HELP. CONTACT TECHNICAL SUPPORT AT ++914-948-4040, CLEANING@ALCONOX.COM

CASE STUDY

SELLING INTO THE GLOBAL PHARMACEUTICAL MARKET

GlaxoSmithKline (GSK) is a top-tier pharmaceutical company with revenues of \$39 billion. GSK ranked 143 in Fortune's Global 500 in 2006.

With the development of a new drug, GSK required a new critical cleaner and validation. Their internet search led them to Alconox.com where they downloaded our 'Pharmaceutical Validation References' and requested a

Liquinox® sample, literature, and a copy of 'The Aqueous Cleaning Handbook.' GSK also requested information on the appropriate HPLC (High-Pressure Liquid Chromatography) method.

The following is a timeline with specific activities leading to consummation of the initial sale and cultivation of this pharmaceutical giant as a customer:

TIMELINE: FROM INITIAL CONTACT TO CULTIVATING CUSTOMER

Initial Contact

**Step 1
Dealer**

Refers request to Alconox Tech Support

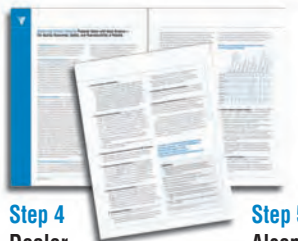
**Step 2
Alconox**

Delivers sample, literature, and book to prospective customer

Months 6-9

**Step 3
Customer**

Downloads Validation References from Alconox.com and requests HPLC method

**Step 4
Dealer**

Refers HPLC request to Alconox support

**Step 5
Alconox**

Sends HPLC method details

**Step 6
Dealer**

Take order from customer and deliver test-run production quantity (4x 1 gallon Liquinox)

Months 10-16

Months 17-18+

**Step 7
Customer**

Conducts validation studies and validation maintenance

**Step 8
Dealer**

Obtains quarterly order (4x 55-gallon Liquinox)

**Step 9
Alconox**

Drop ships orders

**PAYOFF**

A new multinational customer with sales of \$XXX (annual).

FACED WITH A GLOBAL SALES OPPORTUNITY?
Alconox Tech Support can help at every step. Talk to us!

TECHNICAL BULLETINS



Alconox® Page 2.3

Powdered Precision Cleaner

- Concentrated to save you money
- Biodegradable and readily disposable
- Penetrating wetting power to save you time
- Replaces corrosive acids and hazardous solvents
- 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

Liquinox® Page 2.5

Critical-Cleaning Liquid Detergent

- Concentrated to save you money
- Replaces corrosive acids and hazardous solvents
- Phosphate free, biodegradable and readily disposable
- 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

Ter gazyme® Page 2.7

Enzyme-Active Powdered Detergent

- Concentrated to save you money
- Biodegradable and readily disposable
- Replaces corrosive acids and hazardous solvents
- Protease enzyme removes proteinaceous soils, tissue, blood and body fluids
- 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

Alcojet® Page 2.9

Low-Foaming Powdered Detergent

- Concentrated to save you money
- Biodegradable and readily disposable
- Non-ionic, low foaming cleaner for high performance from your cleaning machinery without damaging washer parts
- 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

Alcotabs® Page 2.11

Critical-Cleaning Detergent Tablets

- Special slow release tablet formulation for maximum cleaning performance from your syphon pipette washers
- Concentrated to save you money
- Biodegradable and readily disposable
- 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

Detojet® Page 2.13

Low-Foaming Liquid Detergent

- Concentrated to save you money
- Biodegradable and disposable
- Low foaming heavy duty detergent for high performance results from your cleaning machinery
- 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

Detergent 8® Page 2.15

Low-Foaming Ion-Free Detergent

- Replace solvent cleaning
- Concentrated to save you money
- Biodegradable and readily disposable
- Penetrating wetting power to save you time
- Free rinsing to give you reliable results and no interfering residues
- Contains no phosphate, sulfur, chlorine, metal cation, halide, borate, silicate, carbonate, chlorocarbon, fluorocarbon or chelating ingredients

Citranox® Page 2.17

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

Lumino x® Page 2.19

Low-Foaming Neutral Cleaner

- Low foaming for use in mechanical and spray washers
- Neutral pH for non-corrosive cleaning, safe handling and easy waste disposal
- No chelation or alkalinity waste treatment problems
- Concentrated for economical use
- Free rinsing to eliminate interfering residues
- Biodegradable and phosphate free

Citrajel® Page 2.21

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

Solujet® Page 2.23

Low-Foaming Phosphate-Free Liquid Detergent

- Concentrated to save you money
- Phosphate-free, biodegradable and readily disposable
- Low foaming high wetting detergent for maximum performance
- Free rinsing to give you reliable results and no interfering residues
- Ideal for CIP cleaning and floor standing lab washing machines

Ter gajet® Page 2.25

Low-Foaming Powdered Detergent

- Concentrated to save you money
- Phosphate-free, biodegradable and readily disposable
- Low foaming heavy duty detergent for high performance results
- Free rinsing to give you reliable results and no interfering residues
- Ideal for under-counter and floor standing lab washing machines



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

30 Glenn Street
White Plains NY 10603 USA
Tel. 914.948.4040
Fax. 914.948.4088

**24 Hour Emergency Number
(CHEM-TEL) (800) 255-3924 in U.S.**

(e-mail) cleaning@alconox.com

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

- distributors
- technical information
- free samples
- new developments



Alconox®

Powdered Precision Cleaner

- Concentrated to save you money
- Biodegradable and readily disposable
- Penetrating wetting power to save you time
- Replaces corrosive acids and hazardous solvents
- 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

Used to clean: Healthcare instruments, laboratory ware, vacuum equipment, tissue culture ware, personal protective equipment, sampling apparatus, catheters, tubing, pipes, radioactive contaminated articles, optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal castings, forgings and stampings, industrial parts, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Soil, grit, grime, buffing compound, slime, grease, oils, blood, tissue, salts, deposits, particulates, solvents, chemicals, radioisotopes, radioactive contaminations, silicon oils, mold release agents.

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, 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% solution (2 1/2 Tbsp. per gal., 1 1/4 oz. per gal. or 10 grams per liter) in cold, warm, or hot water. If available use warm water. Use cold water for blood stains. For difficult soils, raise water temperature and use more detergent. Clean by soak, circulate, wipe, or ultrasonic method. Not for spray machines, will foam. For nonabrasive scouring, make paste. Use 2% solution to soak frozen stopcocks. To remove silver tarnish, soak in 1% solution in aluminum container. 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 9 x 4 lb. Boxes (9X1.8 kg)	1104
25 lb. Carton (11 kg)	1125
50 lb. Carton (22.5 kg)	1150
100 lb. Drum (45 kg)	1101
300 lb. Drum (136 kg)	1103
Case 12 Box 50 x 1/2 oz. 950X15 g)	1112
1 lb. makes 13 gal. cleaning solution (1 kg = 100L)	



ALCONOX is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit our Sample Request at www.alconox.com., write or call Alconox, Inc. today.



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

30 Glenn Street
White Plains NY 10603 USA
Tel. 914.948.4040
Fax. 914.948.4088

**24 Hour Emergency Number
(CHEM-TEL) (800) 255-3924 in U.S.**

(e-mail) cleaning@alconox.com

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

- distributors
- technical information
- free samples
- new developments

Physical Data

Typical value

pH of 1% solution	9.5
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	7.3%
Organic Carbon (% calculated w/w)	11%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	32
Percent active ingredients	100%
Color: White and cream colored flakes	
Form: Powder	
Solubility in Water: To 10% (w/w) at ambient temperature	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: High Foaming	
Shelf Life: Two years from date of manufacture	

Chemical Description

Alconox consists primarily of a homogeneous blend of sodium linear alkylaryl sulfonate, alcohol sulfate, phosphates, carbonates. Alconox is anionic in nature.

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, UV, TOC, HPLC, sodium concentration, phosphorus concentration, anionic surfactant concentration using inexpensive detergent water testing kits, surface tension, and surface analysis. Pharmaceutical Cleaning Validation References are available in the tech info section at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

RCRA 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: Mild to Moderate eye irritant if not rinsed

Inhalation Toxicity: Non-irritating solution, powder a potential irritant

VOC Content: 0%

Carcinogenicity:

NTP = No IARC = No OSHA = No

All ingredients in ALCONOX are listed in TSCA inventory. USDA NSF cat A1

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0311.

Contact Alconox, Inc. for purchase specifications. Information presented is typical. 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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Liquinox® Critical-Cleaning Liquid Detergent

- Concentrated to save you money
- Replaces corrosive acids and hazardous solvents
- Phosphate free, biodegradable and readily disposable
- 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

Used to clean: Healthcare instruments, laboratory ware, vacuum equipment, tissue culture ware, personal protective equipment, sampling apparatus, catheters, tubing, disk drives, clean rooms, medical devices, optical parts, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal castings, forgings and stampings, industrial parts, pipes, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. Used for phosphate sensitive analysis ware. FDA certified.

Used to remove: Soil, grit, grime, slime, grease, oils, blood, tissue, particulates, deposits, chemicals and solvents.

Surfaces cleaned: Corrosion inhibited formulation recommended for glass, metal, stainless steel, porcelain, ceramic, plastic, cement and fiberglass. Can be used on soft metals such as copper, aluminum, zinc and magnesium if rinsed promptly. Used for art restoration. 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% solution (2 1/2 Tbsp. per gal., 1 1/4 oz. per gal. or 10 ml per liter) in cold, warm or hot water. If available, use warm water. Use cold water for blood stains. For difficult soils, raise water temperature and use more detergent. Clean by soak, circulate, wipe or ultrasonic method. 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 12 x 1 Quarts (12X0.95 L)	1232
Case 4 x 1 Gallons (4X3.8 L)	1201
15 Gal. Drum (57 L)	1215
30 Gal. Drum (114 L)	1230
55 Gal. Drum	1255
1 gal. makes 100 gal. cleaning solution (1 L = 100 L)	



Liquinox is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit our Sample Request at www.alconox.com, write or call Alconox, Inc. today.

LIQUINOX TECHNICAL BULLETIN



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Physical Data

Typical value

pH (as is)	8.5
Specific gravity (g/ml)	1.07
Density (lbs./gal.)	8.9
Vapor pressure (mm Hg)	10.5
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	0%
Organic Carbon (% calculated w/w)	21%
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

Liquinox consists primarily of a homogeneous blend of sodium linear alkylaryl sulfonate, sodium xylene sulfonate, alkanolamide, and ethoxylated alcohol. Liquinox is anionic in nature.

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, sodium concentration, phosphorus concentration, anionic surfactant concentration using inexpensive detergent water testing kits, surface tension, and surface analysis. For details, see the Pharmaceutical Cleaning Validation References at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None
RCRA Hazard Class: Non-hazardous
RoHS: No RoHS hazardous ingredients
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: Mild to Moderate eye irritant if not rinsed
Inhalation Toxicity: Non-irritating
VOC Content: 0%
Carcinogenicity: NTP = No IARC = No OSHA = No
 All ingredients in Liquinox are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com or by calling fax-on-demand at 914-948-4040 and following the prompts. The Liquinox catalog number starts with 12.

Contact Alconox, Inc. for purchase specifications. Information presented is typical. Not to be taken as specifications. Typical data is not a specification

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Ter gazyme[®] Enzyme-Active Powdered Detergent

- Concentrated to save you money
- Biodegradable and readily disposable
- Replaces corrosive acids and hazardous solvents
- Protease enzyme removes proteinaceous soils, tissue, blood and body fluids
- 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

Used to clean: Hospital instruments, dairy equipment, laboratory ware, reverse osmosis and ultrafiltration membranes and units, sampling apparatus, pharmaceutical apparatus, cosmetics manufacturing equipment, tubing, pipes, optical parts, process equipment, industrial parts, desalination plants, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Soil, grit, grime, blood, tissue, grease, fats, oils, proteinaceous soils, dairy proteins, particulates, solvents and bioreactor residue.

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, 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% solution (2 1/2 Tbsp. per gal., 1 1/4 oz. per gal. or 10 grams per liter) in cold or warm water. If available, use warm water below 130° F (55° C). Clean by soak, circulate, wipe, or ultrasonic method. Follow manufacturer's directions for filter membrane cleaning. 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 9 x 4 lb. Boxes (9X1.8 kg)	1304
25 lb. Carton (11 kg)	1325
50 lb. Carton (22.5 kg)	1350
100 lb. Drum (45 kg)	1301
300 lb. Drum (136 kg)	1303
1 lb. makes 13 gal. cleaning solution (1 kg = 100 L)	



Tergazyme is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com, write or call Alconox, Inc. today.

TERGAZYME TECHNICAL BULLETIN


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(e-mail) cleaning@alconox.com

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

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Physical Data
Typical value

pH of 1% solution	9.5
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	7.5%
Organic Carbon (1% calculated w/w)	11%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	32
Percent active ingredients	100%

Color: White and cream colored flakes and brown specks

Form: Powder

Solubility in Water: To 10% (w/w) at ambient temperature

Hard Water Effectiveness: Highly Effective

Biodegradability: Biodegradable

Foam Tendency: High Foaming

Shelf Life: Two years from date of manufacture

Chemical Description

Tergazyme consists primarily of a homogeneous blend of sodium linear alkylaryl sulfonate, phosphates, carbonates, and protease enzyme. Tergazyme is anionic in nature. The protease enzyme in Tergazyme is bacillus licheniformis subtilisin carlsberg which may be deactivated by 300 ppm hypochlorite at 85 degrees F in seconds; 3.5 ppm hypochlorite at 100 degrees F for 2 min; exposure to pH below 4 for 30 min at 140 degrees F; or by heating to 175 degrees F for 10 min.

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 detergent residue. Parameters measured include: pH, conductivity, UV, TOC, HPLC, sodium concentration, phosphorus concentration, anionic detergent concentration using inexpensive detergent water testing kits, surface tension, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

RCRA 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: Mild to Moderate eye irritant if not rinsed

Inhalation Toxicity: Non-irritating solution, powder a potential irritant

VOC Content: 0%

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Tergazyme are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0313.

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

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Alcojet[®] Low-Foaming Powdered Detergent

- Concentrated to save you money
- Biodegradable and readily disposable
- Non-ionic, low foaming cleaner for high performance from your cleaning machinery without damaging washer parts
- 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

Used to clean: Healthcare instruments, laboratory ware, sampling apparatus, plate glass, animal cages, electronic components, pharmaceutical apparatus, cosmetics manufacturing equipment, metal castings, forgings and stampings, industrial parts, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Soil, grit, grime, slime, grease, tars, resins, fats, oils, blood, tissue, inorganic residues, particulates, chemicals 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, aluminum, zinc and magnesium if rinsed promptly. Corrosion testing may be advisable.

Cleaning method: Laboratory warewashers, water-sterilizers, washer-sanitizers, cart washers, cage washers, spray washers, electrocleaning, ultrasonic cleaners, flow through clean-in-place. Manual cleaning if proper skin and eye protection is used.

Directions: Follow machine manufacturer's directions and use machine's powder detergent receptacles. In general, use 1/2 - 1% hot water wash cycle solutions (1 1/4 - 2 1/2 Tbsp. per gal., 3/4 - 1 1/4 oz. per gal. or 5-10 grams per liter—most machines need 2 1/2 oz. added at a typical 2 gal. wash cycle). For manual, soak, circulate, or ultrasonic use, make a 1% solution in warm or hot water. For abrasive scrubbing, make paste. For difficult soils, raise water temperature and use more detergent. Wear protective gloves and eyewear for manual cleaning. 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 9 x 4 lb. Boxes (9X1.8 kg)	1404
25 lb. Carton (11 kg)	1425
50 lb. Carton (22.5 kg)	1450
100 lb. Drum (45 kg)	1401
300 lb. Drum (136 kg)	1403
1 lb. to up to 26 gal. cleaning solution (1 kg = 200 L)	



ALCOJET is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com., write or call Alconox, Inc. today.



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Physical Data

Typical value

pH of 1% solution	11.0%
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	8.7%
Organic Carbon (% calculated w/w)	1.5%
Surface Tension 1% Sol'n (Dyne/cm)	34%
Percent active ingredients	100%
Color: White	
Form: Powder	
Solubility in Water: Greater than 10% (w/w)	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: Low Foaming	
Shelf Life: Two years from the date of manufacture	

Chemical Description

Alcojet is a blend of sodium silicate, a mixture of complex phosphate, concentrated organic chlorine, sodium carbonate, and an alkylalkoxylate. Alcojet is biodegradable and water soluble. The phosphate content is 8.7% expressed as phosphorus. Alcojet is non-ionic.

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, resistance, spectrographic methods, sodium concentration, phosphorus concentration, surface tension, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

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: Moderate eye irritant if not rinsed

Inhalation Toxicity: Non-irritating solution, powder a potential irritant

VOC Content: 0%

Carcinogenicity:

NTP = No IARC = No OSHA = No

All ingredients in Alcojet are listed in TSCA inventory. USDA NSF cat A1

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0314.

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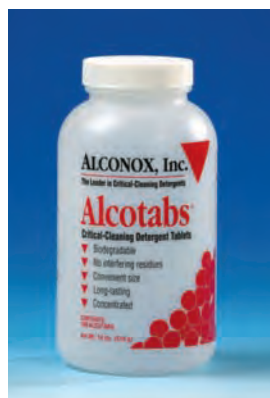
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Alcotabs®

Critical-Cleaning Detergent Tablets

- Special slow release tablet formulation for maximum cleaning performance from your syphon pipette washers
- Concentrated to save you money
- Biodegradable and readily disposable
- 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

Used to clean: Pipettes and tubes with syphon pipette washers in hospitals, clinical, educational, R&D and industrial laboratories and cosmetics manufacturing. Authorized by USDA for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Soil, grit, grime, grease, fats, oils, blood, tissue, salt deposits, particulates, chemicals, solvents and radioisotopes.

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 aluminum, zinc and magnesium if rinsed promptly. Corrosion testing may be advisable.

Cleaning method: Syphon pipette and tube rinser.

Directions: To wash pipettes in syphon-type washers: Submerge pipettes immediately after use in a 1% Alconox, Liquinox, or Tergazyme solution. Let soak in jar until enough pipettes accumulate to fill holder. Drop Alcotab into the rinser. Place the holder with pipettes into rinser. Alcotabs will dissolve (in cold or warm water) and effervesce, producing a detergent solution that passes up and down through the bores and around the pipettes. Rinsing automatically follows after the tablet has dissolved. For analytical or tissue culture work, use distilled, deionized, or purified water for all or final rinse. For food contact surfaces, rinse with potable water.

Available in Convenient Sizes:

	Alconox Cat. #
Case 6 x 100 tablet bottles	1500

Alcotabs are available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com., write or call Alconox, Inc. today



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Physical Data

Typical value

pH of 1% solution	6.5
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	3.9%
Organic Carbon (% calculated w/w)	20%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	32
Percent active ingredients	100%
Color: White and cream flakes	
Form: Tablet	
Solubility in Water: To 10% (w/w) at ambient temperature	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: High Foaming	
Shelf Life: Two years from date of manufacture	

Chemical Description

Alcotabs consists primarily of a homogeneous blend of sodium linear alkylaryl sulfonate, phosphates, carbonate and excipient ingredients added to aid in tableting. Alcotabs are anionic in nature.

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: conductivity, UV, TOC, HPLC, sodium concentration, phosphorus concentration, anionic surfactant concentration using inexpensive detergent water testing kits, surface tension, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

RCRA 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: Mild to moderate eye irritant if not rinsed

Inhalation Toxicity: Non-irritating solution, powder a potential irritant

VOC Content: 0%

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Alcotabs are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0315.

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

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

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Tel. 914.948.4040
Fax. 914.948.4088

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(e-mail) cleaning@alconox.com

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

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- technical information
- free samples
- new developments



Detojet[®] Low-Foaming Liquid Detergent

- Concentrated to save you money
- Biodegradable and disposable
- Low foaming heavy duty detergent for high performance results from your cleaning machinery
- 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

Used to clean: Hospital instruments, laboratory ware, optical components, pharmaceutical apparatus, cosmetics manufacturing equipment, tissue culture ware, plate glass, metal castings, forgings and stampings, industrial parts, animal cages, electronic components, tanks and reactors. Authorized by USDA for use in federally inspected meat and poultry plants. FDA certified.

Used to remove: Soil, grit, grime, slime, grease, tars, resins, fats, oils, blood, tissue, particulates, inorganic residues, chemicals and solvents.

Surfaces cleaned: Recommended for glass, stainless steel, ceramic, cement and alkali resistant plastics and metals such as stainless steel. Corrosion testing is 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: Follow machine manufacturers directions. Not intended for powder detergent receptacles. If available, use liquid detergent reservoir, connecting tubes or metering pump. In general, use 1/2 - 1% solution in hot water wash cycle (1 1/4 - 2 1/2 Tbsp. per gal., 3/4 - 1 1/4 oz. per gal. or 5-10 ml per liter—most machines need 2 1/2 oz. added at a typical 2 gal. wash cycle). For soak, circulate or ultrasonic use, make a 1% solution in cold, warm or hot water. For difficult soils, raise water temperature and use more detergent. Wear protective gloves and eyewear when handling. 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 range of alkali resistant glass, ceramic, plastic and metal surfaces. Corrosion testing is advisable.

Available in Convenient Sizes:

	Alconox Cat. #
Case 12 x 1 Quarts (12X0.95 L)	1632
Case 4 x 1 Gallons (4X3.8 L)	1601
5 Gal. Drum (19 L)	1605
15 Gal. Drum (57 L)	1615
30 Gal. Drum (114 L)	1630
55 Gal. Drum (208 l)	1655
1 gal for up to 200 gal solution (1 L = 200 L)	



Detojet is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com., write or call Alconox, Inc. today.

DETOJET TECHNICAL BULLETIN



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Physical Data

Typical value

pH of 1% solution	12.4
Specific gravity (g/ml)	1.3
Density (lbs./gal.)	10.8
Flash Point (degrees F)	None
Phosphate Content (as Phosphorus)	2.3%
Organic Carbon (% calculated w/w)	0.1-1.0%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	55
Color: Clear	
Form: Liquid	
Solubility in Water: Completely soluble in all proportions	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: Low Foaming	
Shelf Life: Two years from the date of manufacture	

Chemical Description

Detojet is a highly alkaline detergent containing Potassium Hydroxide, Silicate of Soda and Sodium Hypochlorite. It should be used with caution and the precautions on the label should be followed. Detojet is non-ionic.

Cleaning Validation Methods:

Test a parameter of rinse water before and after rinsing the cleaned surface, or test the surface. No significant change in the parameter indicates no detectable residue. Parameters measured include: pH, conductivity, IC, phosphate analysis, sodium or potassium concentration, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

OSHA Hazardous Ingredients: None

RCRA Hazard Class: 1% or less—Non-hazardous. Undilute material—may be hazardous and require regulatory compliance.

EPA Priority Pollutants: None

DOT Hazard Classification: UN 1760, Corrosive Liquid, n.o.s., (contains potassium hydroxide and sodium hypochlorite), 8, PG II

Eye Irritation: Serious eye irritant

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

VOC Content: 0%

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Detojet are listed in TSCA inventory.

Precautions:

Avoid contact with skin, eyes and clothing. Do not take internally (see Directions). In case of contact immediately flush skin with plenty of water. For eyes, flush with plenty of water for at least 15 minutes and get medical attention immediately. A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0316.

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Detergent 8[®]

Low-Foaming Ion-Free Detergent

- Replace solvent cleaning
- Concentrated to save you money
- Biodegradable and readily disposable
- Penetrating wetting power to save you time
- Free rinsing to give you reliable results and no interfering residues
- Contains no phosphate, sulfur, chlorine, metal cation, halide, borate, silicate, carbonate, chlorocarbon, fluorocarbon or chelating ingredients

Used to clean: Circuit boards, electronic parts, phosphate sensitive labware, nuclear reactor cavities, delicate industrial parts and nuclear contaminated equipment during outage. FDA certified.

Used to remove: Resins, rosins, oils, dirt, grime, particulates, residues, fluxes, chemicals and solvents.

Surfaces cleaned: Corrosion inhibited formulation recommended for glass, metal, stainless steel, porcelain, ceramic, plastic, fiberglass, circuit boards. Can be used, with prompt rinsing, on soft metals such as copper, aluminum, zinc, silver, gold and magnesium. Corrosion testing is advisable.

Cleaning method: Soak, brush, sponge, cloth, ultrasonic, ware washer, spray washer, pressure washer and flow through clean-in-place.

Directions: For manual, soak and ultrasonic use, make a 3-5% solution (4-6 oz. per gal. or 30-50 ml per liter) in warm or hot water. An oily, milky solution is normal. Protective gloves and eyewear are recommended. For spray machines, add detergent at the hot water wash cycle to make a 2% solution (2 1/2 oz. per gal. or 20 ml per liter). For difficult soils, raise water temperature and use more detergent. RINSE THOROUGHLY—preferably with running water. For critical cleaning, do final or all rinsing in distilled, deionized or purified water. Used on a range of glass, ceramic, plastic and metal surfaces. Corrosion testing is advisable.

Available in Convenient Sizes:

	Alconox Cat. #
Case 4 x 1 Gallons (4X3.8 L)	1701
5 Gal. Jerrycan (19 L)	1705
15 Gal. Drum (57 L)	1715
55 Gal. Drum (208 L)	1755
1 gal. makes 20-50 gal. solution (1 L = 20-50 L)	



Detergent 8 is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com, write or call Alconox, Inc. today.

DETERGENT 8 TECHNICAL BULLETIN



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Physical Data

Typical value

pH of 1% solution	11.0
Specific gravity (g/ml)	.99
Density (lbs./gal.)	8.25
Flash Point (degrees F, cleveland open cup)	201
Phosphate Content (as Phosphorus)	0%
Organic Carbon (% calculated w/w)	35-40%
Fragrance Content	0%
Surface Tension 1% Sol'n (Dyne/cm)	32
Color: Clear	
Form: Liquid	
Solubility in Water: Completely soluble	
Hard Water Effectiveness: Highly Effective	
Biodegradability: Biodegradable	
Foam Tendency: Low Foaming	
Shelf Life: Two years from the date of manufacture	

Chemical Description

Detergent 8 is a non-ionic, phosphate-free homogeneous blend of an alkanolamine, glycol ethers and an alkoxyated fatty alcohol. Contains no chelating agents, halides or conductive metal cations such as sodium.

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, spectrographic methods, surface tension, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

RCRA Hazard Class: Non-hazardous

EPA Priority Pollutants: None

DOT Hazard Class: UN 1760, Corrosive Liquid, n.o.s. (contains isopropanolamine), 8, PG II

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: Potentially serious eye irritant

VOC Content: 70% as is

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Detergent 8 are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0317.

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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. FDA certified.

Used to remove: Scale, metal oxides, metal complexes, trace inorganics, milkstone, soil, grit, buffing compound, grime, grease, fats, oils, particulates, deposits, chemicals 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 (4X3.8 L)	1801
15 Gal. Drum(57 L)	1815
30 Gal. Drum(114 L)	1830
55 Gal. Drum (208 L)	1855
1 gal. makes 50 gal. cleaning solution (1 L = 50 L)	



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CITRANOX TECHNICAL BULLETIN


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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%
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. For details, see the Pharmaceutical Validation References 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

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 Citranox are listed in TSCA inventory. USDA NSF cat A3

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0318.

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Lumino x[®]

Low-Foaming Neutral Cleaner

- Low foaming for use in mechanical and spray washers
- Neutral pH for non-corrosive cleaning, safe handling and easy waste disposal
- No chelation or alkalinity waste treatment problems
- Concentrated for economical use
- Free rinsing to eliminate interfering residues
- Biodegradable and phosphate free

Used to Clean: Aluminum and soft metal surfaces, medical instruments in aluminum trays, alkaline sensitive lab and glassware, sensitive aerospace materials, pharmaceutical process equipment, medical devices, electronic components. FDA certified.

Used to Remove: Oils, dirt, grime, adhesives and uncured epoxy, particulates, residues, fluxes, chemical solvents, machining oils.

Surfaces Cleaned: Corrosion inhibited formulation recommended for glass, ferrous metals, non-ferrous metals, aluminum, copper, zinc, and other soft metals, ceramic, plastic, circuit boards and electronic components.

Cleaning Method: Soak tanks, manual cleaning, ultrasonic tanks, mechanical washers, washer/sanitizers, spray washers, CIP systems.

Directions for Use: For manual, soak and ultrasonic use, make a 3-5% solution (4-6 oz per gal. or 30-50 ml per liter) in warm or hot water. Protective gloves and eyewear are recommended. For spray machines, add detergent at the hot water wash cycle to make a 2% solution (2 1/2 oz. per gal. or 20 ml per liter). For difficult soils raise water temperature and use more detergent. RINSE THOROUGHLY—preferably with running water. For critical cleaning do final or all rinsing in distilled, deionized or purified water. Corrosion testing may be advisable.

Available in Convenient Sizes:

	Alconox Cat. #
Case 4 x 1 Gallons (4X3.8 L)	1901
15 Gal. Drum (57 L)	1915
55 Gal. Drum (208 L)	1955
1 gal. for 20-50 gal. of solution (1 L=20-50 L)	



Luminox is available from leading laboratory, hospital, clinic find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com, write or call Alconox, Inc. today.

LUMINOX TECHNICAL BULLETIN



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Physical Data

Typical value

pH (as is)	6.6
pH (1% to 5%)	7.5
Specific Gravity (g/ml)	1.050
Density (lbs./gal.)	8.75
Surface Tension (dyne/cm)	35.0
Flash Point (degrees F, cleveland open cup)	216
Phosphate Content (as Phosphorous)	0%
Chelate Content	0%
Organic Carbon (% calculated w/w)	20-30%
Fragrance Content	0%
Color: Clear	
Form: Liquid	
Solubility in water: Completely soluble	
Foam tendency: Low foaming	
Biodegradability: Biodegradable	
Shelf life: Two years from date of manufacture	

Chemical Description

Luminox is an aqueous, low-ionic content, phosphate-free blend of organic solvents, surfactants, and rinse aids.

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, spectrographic methods, surface tension, and surface analysis. For details, see the Pharmaceutical Validation References at www.alconox.com.

Health Safety Information:

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 oral rat

No ingredient defined as an oral toxicant by OSHA

Eye Irritation: Potentially serious eye irritant

VOC Content: Less than 50 mg/liter even at 10% use concentration

Carcinogenicity: NTP = No IARC = No OSHA = No

All ingredients in Luminox are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #0319.

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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. USDA compliant for use in federally inspected meat and poultry plants. Passes inhibitory residue test for water analysis. FDA certified.

Used to remove: Scale, metal oxides, metal complexes, trace inorganics, milkstone, soil, grit, buffing compound, grime, grease, fats, oils, particulates, amphoteric peptides, deposits, chemicals 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 when handling. RINSE THOROUGHLY—running water is best. 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 (4X3.8 L)	2001
5 Gal. Jerrycan (19 L)	2005
15 Gal. Drum (57 L)	2015
55 Gal. Drum (208 L)	2055
1 gal. makes 50 gal. cleaning solution (1 L = 50 L)	



Citrajet is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealer" at the website. To request FREE samples visit Sample Request at www.alconox.com, write or call Alconox, Inc. today.

CITRAJET TECHNICAL BULLETIN



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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%
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: Two years from date of manufacture	

Chemical Description

Citrajcet contains a blend of organic acids and surfactants. Citrajcet 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 > 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

Latex Content: no latex ingredients or latex in packaging

Carcinogenicity: NTP = No IARC = No OSHA = No

VOC Content: 0%

All ingredients in Citrajcet are listed in TSCA inventory.

Precautions:

No special precautions other than good industrial hygiene and safety practices employed with any industrial chemical (see Directions). A Material Safety Data Sheet is available at www.alconox.com, or by calling fax-on-demand at 914-948-4040, and following the prompts. Use fax document #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.



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

30 Glenn Street
White Plains NY 10603 USA
Tel. 914.948.4040
Fax. 914.948.4088

**24 Hour Emergency Number
(CHEM-TEL) (800) 255-3924 in U.S.**

(e-mail) cleaning@alconox.com

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

- distributors
- technical information
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Solujet®

Low-Foaming Phosphate-Free Liquid Detergent

- Concentrated to save you money
- Phosphate-free, biodegradable and readily disposable
- Low foaming high wetting detergent for maximum performance
- Free rinsing to give you reliable results and no interfering residues
- Ideal for CIP cleaning and floor standing lab washing machines

Used to clean: Pharmaceutical process equipment, water testing labware, phosphate sensitive lab equipment cleaning, hospital instruments, optical components, pharmaceutical apparatus, cosmetics manufacturing equipment, tissue culture ware, plate glass, metal castings, forgings and stampings, industrial parts, animal cages, electronic components, tanks and reactors. USDA authorized category A1 for use in food contact surface cleaning. FDA certified.

Used to remove: Soil, radioisotopes, radioactivity, organics, grit, grime, slime, grease, tars, resins, fats, oils, blood, tissue, particulates, inorganic residues, chemicals and solvents.

Surfaces cleaned: Recommended for glass, stainless steel, PTFE, ceramic, cement and alkali resistant plastics and metals such as stainless steel. Solujet is inhibited for Aluminum. Corrosion testing is advisable. Clean-in place, laboratory warewashers, dishwashers, washer-sterilizers, washer-sanitizers, cart washers, spray washers, electrocleaning, ultrasonic cleaners, and manual cleaning if proper skin and eye protection is used.

Directions: Follow machine manufacturers directions. Not intended for powder detergent receptacles. If available, use liquid detergent reservoir, connecting tubes or metering pump. In general, use 1/2 - 1% solution in hot water wash cycle (1 1/4 - 2 1/2 Tbsp. per gal., 3/4 - 1 1/4 oz. per gal. or 5-10 ml per liter—most machines need 2 1/2 oz. added at a typical 2 gal. wash cycle). For soak, circulate or ultrasonic use, make a 1% solution in cold, warm or hot water. For difficult soils, raise water temperature and use more detergent. Wear protective gloves and eyewear when handling. 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 range of alkali resistant glass, ceramic, plastic and metal surfaces. Corrosion testing is advisable.

Convenient Sizes:	Alconox Cat. #
Case 4 X 1 Gallon Bottles (4X3.8 L)	2101
5 Gallon Jerrycan(19 L)	2105
15 Gallon Drum (57 L)	2115
30 Gallon Drum (114 L)	2130
55 Gallon Drum (208 L)	2155
1 gal. for up to 200 gal. cleaning solution (1 L=200 L)	



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



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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)
Percent active ingredients
Color: Clear
Form: Liquid
Solubility in Water: Completely Soluble
Hard Water Effectiveness: Highly Effective
Biodegradability: Biodegradable
Foam Tendency: Low Foaming
Shelf Life: Two years from the date of manufacture

Typical Data

12.2
1.31
10.91
None
0%
4.5%
0%
33
100%

Chemical Description:

Solujet is a highly alkaline detergent containing potassium hydroxide, silicate of soda, and surfactants.

Cleaning Validation Methods:

Parameters measured include: pH, conductivity, resistance, spectrographic methods, total organic carbon, and surface analysis. Call or visit www.alconox.com for a copy of the pharmaceutical cleaning validation references.

Health Safety Information:

OSHA Hazardous Ingredients: None
RCRA Hazard Class: 1% non hazardous, undiluted material maybe hazardous
EPA Priority Pollutants: None
DOT Hazard Classification: UN 1760, Corrosive Liquid, n.o.s. (contains potassium hydroxide), 8, PG II
Eye Irritation: Serious eye irritant
Oral Toxicity: LD₅₀ >5000 mg/kg oral rat
Latex Content: None in detergent, packaging materials or adhesives.
VOC Content: 0%
Carcinogenicity: NTP = No IARC = No OSHA = No
 All ingredients in Solujet are listed in TSCA inventory. USDA NSF cat A1

Precautions:

Avoid contact with skin, eyes and clothing. Do not take internally. In case of contact immediately flush skin with plenty of water. For eyes, flush with plenty of water for at least 15 minutes and get medical attention immediately. A Material Safety Data Sheet is available at www.alconox.com or by calling fax-on-demand at 914-948-4040 and following the prompts. Use fax document # 0421.

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Ter gajet® Low-Foaming Powdered Detergent

- Concentrated to save you money
- Phosphate-free, biodegradable and readily disposable
- Low foaming heavy duty detergent for high performance results
- Free rinsing to give you reliable results and no interfering residues
- Ideal for under-counter and floor standing lab washing machines

Used to clean: Water testing labware cleaning, phosphate sensitive lab equipment cleaning, hospital instruments, optical components, pharmaceutical apparatus, cosmetics manufacturing equipment, tissue culture ware, plate glass, metal castings, forgings and stampings, industrial parts, animal cages, electronic components, tanks and reactors. USDA food contact surface cleaning compliant. FDA certified.

Used to remove: Soil, radioisotopes, radioactivity, organics, grit, grime, slime, grease, tars, resins, fats, oils, blood, tissue, particulates, inorganic residues, chemicals and solvents.

Surfaces cleaned: Recommended for glass, stainless steel, PTFE, ceramic, cement and alkali resistant plastics and metals. Tergajet is inhibited for Aluminum. Corrosion testing is advisable.

Cleaning method: Laboratory warewashers, dishwashers, washer-sterilizers, washer-sanitizers, cart washers, spray washers, electrocleaning, ultrasonic cleaners, clean-in-place and manual cleaning if proper skin and eye protection is used.

Directions: Follow machine manufacturer's directions and use the powder detergent receptacles. In general, use 1/2 - 1% hot water wash cycle solutions (1 1/4 - 2 1/2 Tbsp. per gal., 3/4 - 1 1/4 oz. per gal. or 5-10 grams per liter -- most machines need 2 1/2 oz. added at a typical 2 gal. wash cycle). For manual, soak, circulate or ultrasonic use, make a 1% solution in warm or hot water. For abrasive scrubbing, make a paste. For difficult soils, raise water temperature and use more detergent. Wear protective gloves and eyewear when handling. 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 is advisable.

Convenient Sizes:	Alconox Cat. #
Case 9 x 4 lb. Boxes (9X1.8 kg)	2204
25 lb. Carton (11 kg)	2225
50 lb. Carton (22.5 kg)	2250
100 lb. Drum (45 kg)	2201
300 lb. Drum (136 kg)	2203
1 lb. makes up to 26 gal. cleaning solution (1 kg=200 L)	



Tergajet is available from leading laboratory, hospital, clinical and industrial suppliers. To find a distributor for Alconox, Inc. detergents, visit "Find Dealers" at the website. To request FREE samples, visit Sample Request at www.alconox.com, write or call Alconox, Inc. today.



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Physical Data

pH of 1% solution
Flash Point (degrees F)
Phosphate Content (as Phosphorus)
Organic Carbon (% calculated w/w)
Surface Tension 1% Sol'n (Dyne/cm)
Percent active ingredients
Color: White
Form: Powder
Solubility in Water: Completely Soluble to 10% (w/w)
Hard Water Effectiveness: Highly Effective
Biodegradability: Biodegradable
Foam Tendency: Low Foaming
Shelf Life: Two years from the date of manufacture

Typical Data

11.5
None
0%
8.5%
33
100%

Chemical Description

Tergajet is a highly alkaline detergent containing sodium carbonate, silicate of soda, and surfactants. Tergajet is biodegradable and water soluble. The phosphate content is 8.7% expressed as phosphorus. Tergajet is non-ionic.

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, total organic carbon, and surface analysis. For details see the Pharmaceutical Cleaning Validation References at www.alconox.com

Health Safety Information:

OSHA Hazardous Ingredients: None
RCRA Hazard Class: Non-hazardous
EPA Priority Pollutants: None
DOT Hazard Classification: Non-hazardous
Eye Irritation: Serious eye irritant
Oral Toxicity: LD 50 <5000 mg/kg oral rat
Latex Content: None in detergent, packaging materials or adhesives.
VOC Content: 0%
Carcinogenicity: NTP = No IARC = No OSHA = No
 All ingredients in Tergajet are listed in TSCA inventory. USDA NSF cat A1

Precautions:

Avoid contact with skin, eyes and clothing. Do not take internally. In case of contact immediately flush skin with plenty of water. For eyes, flush with plenty of water for at least 15 minutes and get medical attention immediately. A Material Safety Data Sheet is available at www.alconox.com or by calling fax-on-demand at 914-948-4040 and following the prompts. Use fax document #0422.

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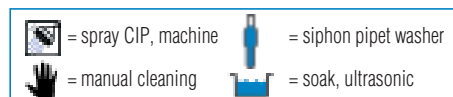
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Available Worldwide from
leading laboratories, scientific,
healthcare and industrial suppliers

Biodegradable. Concentrated. Interfering residue free. Alconox detergents set the standard for critical cleaning. Scientists, engineers and professionals specify Alconox detergents in their cleaning procedures for optimum economy, environmental safety and performance.



Alconox® Powdered Precision Cleaner

Original general-purpose powder for manual, soak, and ultrasonic cleaning of glass, metal, and plastic. No interfering residues. Has inhibitory residue test. USDA/FDA compliant. Dilute 1:100, pH 9.5

Size	Mfr Cat No	Mfr. Direct US\$
4 lb box (1.8 kg)	1104-1	\$ 34.00
CS 9X4 lb (9X1.8 kg)	1104	\$ 259.00
25 lb box (11 kg)	1125	\$ 174.00
50 lb box (22.5 kg)	1150	\$ 323.00
100 lb drum (45 kg)	1101	\$ 591.00
300 lb drum (136 kg)	1103	\$ 1561.00
50X0.5 oz packs (50X15g)	1112-1	\$ 60.00
CS 12X50 packs	1112	\$ 549.00

Liquinox™ Critical Cleaning Liquid Detergent

Original general-purpose, phosphate-free liquid for manual, soak, and ultrasonic cleaning of glass, metal, and plastic. No interfering residues. Has inhibitory residue test. USDA/FDA compliant. Dilute 1:100, pH 8.5

Size	Mfr Cat No	Mfr. Direct US\$
1qt Bottle (0.95 L)	1232-1	\$ 21.00
CS 12X1 qt (12X.95 L)	1232	\$ 190.00
1gal Bottle (3.8 L)	1201-1	\$ 66.00
CS 4X1 Gal (4X3.8 L)	1201	\$ 221.00
5 gal jerrycan (19 L)	1205	\$ 244.00
15 gal drum (57 L)	1215	\$ 655.00
55 gal drum (209 L)	1255	\$ 2097.00

Citranox® Liquid Acid Cleaner and Detergent

Liquid acid cleaner for manual, soak and ultrasonic cleaning or acid neutralizing. Corrosion-inhibited for glassware, metals, and plastic. Surfactant rinse aids for no interfering residues. Has inhibitory residue test. USDA and FDA compliant. Dilute 1:100, pH 2.5.

Size	Mfr Cat No	Mfr. Direct US\$
1 gal bottle (3.8 L)	1801-1	\$ 57.00
CS 4X1 gal (4X3.8 L)	1801	\$ 191.00
5 gal jerrycan (19 L)	1805	\$ 238.00
15 gal drum (57 L)	1815	\$ 700.00
55 gal drum (209 L)	1855	\$ 2287.00

Alcotabs® Tablet Pipet Detergent

Effervescent detergent tablet for maximum cleaning in siphon pipet washers. Slow release bubbles and free rinsing give no interfering residues. Has inhibitory residue test. Use 2 tabs/wash, pH 6.5

Size	Mfr Cat No	Mfr. Direct US\$
100 tablet bottle	1500-1	\$ 27.00
CS 6X100 bottles	1500	\$ 129.00

Luminox® Low-Foaming Neutral pH Liquid Detergent

Low-foaming, neutral pH detergent for use in manual, ultrasonic, and machine cleaning. Safe-handling detergent used for noncorrosive, light-duty cleaning. No chelator or alkaline waste treat problems. Free rinsing, eliminating interfering residues. Dilute 3:100, pH 7.0

Size	Mfr Cat No	Mfr. Direct US\$
1gal Bottle (3.8 L)	1901-1	\$ 71.00
CS 4X1 Gal (4X3.8 L)	1901	\$ 235.00
5 gal jerrycan	1905	\$ 293.00
15 gal drum (57 L)	1915	\$ 723.00
55 gal drum (209 L)	1955	\$ 2355.00

Tergazyme™ Enzyme-Active Powdered Detergent

Enzymatic cleaner for manual, soak, and ultrasonic cleaning of proteins, tissue, and body fluids from glass, metals, and plastic, with no interfering residues. Cleans filter membranes, fermenters and bioreactors. Has inhibitory residue test. FDA/USDA compliant. Dilute 1:100, pH 9.5

Size	Mfr Cat No	Mfr. Direct US\$
4 lb box (1.8 kg)	1304-1	\$ 37.00
CS 9X4 lb (9X1.8 kg)	1304	\$ 281.00
25 lb box (11 kg)	1325	\$ 177.00
50 lb box (22.5 kg)	1350	\$ 333.00
100 lb drum (45 kg)	1301	\$ 619.00
300 lb drum (136 kg)	1303	\$ 1609.00

Detergent 8® Low-Foaming Ion-Free Liquid Detergent

Nonionic detergent for PC board washing machines, manual, and ultrasonic cleaning. Ion- and chelate-free for no conductive residues on electronics and no chelate interference in waste. Phosphate free. Dilute 3:100, pH 11

Size	Mfr Cat No	Mfr. Direct US\$
1gal Bottle (3.8 L)	1701-1	\$ 98.00
CS 4X1 Gal (4X3.8 L)	1701	\$ 328.00
5 gal jerrycan (19 L) - Air OK	1705	\$ 417.00
15 gal drum (57 L)	1715	\$ 1004.00
55 gal drum (209 L)	1755	\$ 3244.00

Detojet™ Low Foaming Liquid Detergent

Heavy-duty alkaline degreaser. Nonionic liquid for labware and machine washers, manual, and ultrasonic cleaning. Corrosion-inhibited for glass, metals, and plastic. No interfering residues. Has inhibitory residue test. USDA/FDA compliant. Dilute 1:200, pH 12

Size	Mfr Cat No	Mfr. Direct US\$
1qt Bottle (0.95 L)	1632-2	\$ 16.00
CS 12X1 qt (12X.95 L)	1632	\$ 147.00
1gal Bottle (3.8 L)	1601-1	\$ 50.00
CS 4X1 Gal (4X3.8 L)	1601	\$ 167.00
5 gal can (19 L) - Air OK	1605	\$ 201.00
15 gal drum (57 L)	1615	\$ 556.00
30 gal drum (114 L)	1630	\$ 1009.00
55 gal drum (209 L)	1655	\$ 1607.00

Alcojet® Low Foaming Powdered Detergent

General-purpose nonionic powder for labware and machine washers, manual, and ultrasonic cleaning. Corrosion-inhibited for glassware, metals, and plastic. No interfering residues. Has inhibitory residue test. USDA authorized. Dilute 1:200, pH 11.5

Size	Mfr Cat No	Mfr. Direct US\$
4 lb box (1.8 kg)	1404-1	\$ 33.00
CS 9X4 lb (9X1.8 kg)	1404	\$ 250.00
25 lb box (11 kg)	1425	\$ 166.00
50 lb box (22.5 kg)	1450	\$ 303.00
100 lb drum (45 kg)	1401	\$ 569.00
300 lb drum (136 kg)	1403	\$ 1541.00

Tergajet™ Low-Foaming Phosphate-Free Powder

Phosphate-free, nonionic powder for machine washers, hand, and ultrasonic cleaning. Corrosion-inhibited for labware. For water, microbiology, and environmental labs. No interfering residues. Has inhibitory residue test. USDA compliant. Dilute 1:200, pH 11.5

Size	Mfr Cat No	Mfr. Direct US\$
4 lb box (1.8 kg)	2204-1	\$ 38.00
CS 9X4 lb (9X1.8 kg)	2204	\$ 285.00
25 lb box (11 kg)	2225	\$ 185.00
50 lb box (22.5 kg)	2250	\$ 344.00
100 lb drum (45 kg)	2201	\$ 634.00
300 lb drum (136 kg)	2203	\$ 1693.00

Solujet™ Low-Foaming Phosphate-Free Liquid

Nonionic liquid for machine, spray-CIP, manual, soak, and ultrasonic cleaning. High emulsifying and penetrating formula. Corrosion-inhibited for glass, metals, and plastic. No interfering residues. Has inhibitory residue test. USDA and FDA compliant. Dilute 1:200, pH 12

Size	Mfr Cat No	Mfr. Direct US\$
1 gal bottle (3.8 L)	2101-1	\$ 65.00
CS 4X1 gal (4X3.8 L)	2101	\$ 199.00
5 gal can (19 L) - Air OK	2105	\$ 239.00
15 gal drum (57 L)	2115	\$ 681.00
30 gal drum (114 L)	2130	\$ 1238.00
55 gal drum (209 L)	2155	\$ 2143.00

Citrajel® Low-Foam Liquid Acid Cleaner/Rinse

Liquid acid cleaner for machine, spray-CIP, manual, and ultrasonic cleaning or acid neutralizing. Corrosion-inhibited for glassware, metals, and plastic. Surfactant rinse for no interfering residues. Has inhibitory residue test. USDA/FDA compliant. Dilute 1:100, pH 2.5.

Size	Mfr Cat No	Mfr. Direct US\$
1 gal bottle (3.8 L)	2001-1	\$ 56.00
CS 4X1 gal (4X3.8 L)	2001	\$ 187.00
5 gal can (19 L)	2005	\$ 230.00
15 gal drum (57 L)	2015	\$ 649.00
30 gal drum (114 L)	2030	\$ 1241.00
55 gal drum (209 L)	2055	\$ 2163.00



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