ALCONOX

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

30 Glenn Street
White Plains NY 10603 USA
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**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**


# Tergazyme™

## 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** | **1304** |
| **25 lb. Carton** | **1325** |
| **50 lb. Carton** | **1350** |
| **100 lb. Drum** | **1301** |
| **300 lb. Drum** | **1303** |
| **250 x 1/2 oz. Box** | **1312** |
| **1 lb. makes 13 gal. cleaning solution** | |

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 alconox.com, write or call Alconox, Inc. today.

MS 02.60.01.00.04.0

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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 the 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:** (5 g per kg > 500 mg/kg) 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. 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 #0313.

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





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