

elements™



environmentally responsible
maintenance solutions



neutral disinfectant cleaner

A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 400 ppm (calculated as CaCO₃) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans and deodorizes in one labor-saving step.

Recommended for use in: hospitals, nursing homes, schools, colleges, commercial and industrial institutions, office buildings, airports, hotels, motels, and households.

DIRECTIONS:

DISINFECTION / CLEANING / DEODORIZING

DIRECTIONS: Remove heavy soil deposits from surface, then thoroughly wet surface with a use-solution of 2 ounces of the concentrate per gallon of water. The use-solution can be applied with a cloth, mop, sponge, or coarse spray or by soaking. For sprayer applications, use a coarse spray device. Spray 6-8 inches from the surface, rub with a brush, cloth or sponge. Do not breathe spray. Let solution remain on surface for a minimum of 10 minutes. Rinse or allow to air dry. Rinsing of floors is not necessary unless they are to be waxed or polished.

Food contact surfaces must be thoroughly rinsed with potable water. This product must not be used to clean the following food contact surfaces: utensils, glassware and dishes.

FUNGICIDAL DIRECTIONS:

For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities follow disinfection directions.

MILDEWSTATIC INSTRUCTIONS:

Will effectively control the growth of mold and mildew, plus the odors caused by them when applied to hard, nonporous surfaces such as walls, floors and table tops.

BACTERICIDAL STABILITY OF USE-DILUTION:

Tests confirm that this product, when diluted in 400 ppm hard water, remains effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella choleraesuis* for up to 3 months when stored in a sealed container such as a spray bottle. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails.

ENVIRONMENTALLY RESPONSIBLE COMPARISON

Traditional Products	Elements
Nonylphenol ethoxylates	None
Sodium Phosphates	None
Sodium silicates	None
	Octyl Diethyl Amine Oxide
	Trisodium Edetate
pH 10 – 12	pH 7 – 8

Traditional Compound Descriptions:

Nonylphenol ethoxylates – a non-ionic surfactant that is used to provide wetting and detergency. However, it is derived from a petroleum-based product. It has a suspected harmful biodegradable intermediate.

Sodium Phosphates – offer good control of hardness ions and maintain alkalinity levels. They also increasing cleaning efficiency by suspending dirt. However, phosphate are plant nutrients Those promote algae blooms.

Sodium Silicate – provides buffering and alkalinity. However, alkaline silicates can be corrosive to eyes and skin.

Elements Compound Descriptions:

Octyl Diethyl Amine Oxide – a surfactant that is used to provide wetting and detergency. Non-irritating, non-toxic and biodegradable.

Trisodium Edetate - offers very good control of hardness ions and makes disinfectant effective in hard water

PRODUCT SPECIFICATIONS

Dial Setting for 11 oz.	#2 (1:64)	Solubility:	Complete with water
Color:	Yellow	Dilution:	2 oz./gal. (1:64)
Odor:	Lemon	Detergency:	Excellent
pH:	7.0 - 8.0	Rinsability:	Excellent
Base:	Quaternary ammonium chloride	Hard Water Tolerance:	400 ppm
Viscosity:	Water thin	Biodegradability:	Complete
Foam:	Moderate	Storage/Stability:	1 year
Abrasives:	None	Weight per Gallon:	8.25 lbs./gal.
		Freeze / Thaw Stability:	Keep from freezing

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation	Product Name: Disinfectant Cleaner	Supplier's Name:
Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605	Generic Name: Neutral Disinfectant & Detergent	Supplier's Address:
Manufacturer's Phone #: (610) 926-4106	Chemical Family: Quaternary Detergent Blend	Supplier's Phone #:
	Formula: Proprietary	
	EPA Reg. No. 47371-131-8325	

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Dimethyl Benzyl Ammonium Chloride	8001-54-5	1.69			
Didecyl Dimethyl Ammonium Chloride	7173-51-5	2.54			
Octyl Dimethyl Amine Oxide	2605-78-9	0 to 5			
Trisodium Salt of EDTA	150-38-9	0 to 5			
Perfume Oil	N/A	0 to 5			
Dye	N/A	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (F): 210 F.	Specific Gravity: 1.00
Vapor Pressure: 20mm Hg @ 68 F.	Vapor Density (Air=1): >1
% Volatile: 85+	pH: 7.2-8.2
Solubility in Water: Complete	Evaporation Rate (Water=1): <1
Physical Description: Thin yellow liquid with characteristic odor.	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None	Lower Explosion Limit: N/A
Upper Explosion Limit: N/A	Extinguishing Media: N/A
Special Firefighting Procedures: Non Flammable	
Unusual Fire and Explosion Hazards: N/A	

SECTION 5-REACTIVITY DATA

Stability: Stable	Hazardous Polymerization: None
Hazards Decomposition Products: Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines, and oxides of carbon and nitrogen.	Incompatibility (Materials to Avoid): Strong oxidizing or reducing agents

SECTION 6-STORAGE AND HANDLING INFORMATION

Severe eye irritant. Skin irritant. Avoid contact with eyes, skin and clothing. Wear protective gloves and eyewear when handling concentrate. Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. EPA registered product, follow direction exactly. Use in well ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: Skin irritant. Prolonged or repeated contact may cause dermatitis.
Eyes: Severe eye irritant. Liquid and mists may injure the eyes, causing corneal damage.
Inhalation: Inhalation of mists will cause respiratory irritation marked by coughing, sneezing, burning sensation of nose and throat.
Ingestion: May be irritating to the mouth, throat, and gastrointestinal system. Burning, pain, and diarrhea expected with large doses.
First Aid Procedures:
Skin: Remove contaminated clothing. Flush affected areas with large quantities of water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention.
Inhalation: Remove victim to fresh air. Seek medical attention if irritation persists
Ingestion: Give large quantities of milk and water. Do not induce vomiting. Seek medical attention immediately.
 Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements.
Ventilation Requirements: General ventilation acceptable.
Protective Gloves: Chemical resistant rubber or neoprene.
Eye Protection: Safety glasses or chemical splash goggles.
Other Protective Equipment: Eyewash station should be provided nearby. Wear protective rubber footwear when using on floors.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.
Waste Disposal Method: EPA registered pesticide. Any method in accordance with local, state and federal laws governing such. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Triple rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:	Shipping Information:	HMIS Hazardous Materials Identification System
No - Fire Hazard	FOR CONTAINERS > 1 Gallon : Cleaning Compound	Health
No - Sudden Release of Pressure Hazard	Non Hazardous	Flammability
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS : Cleaning Compound	Reactivity
Yes - Immediate (acute) Health Hazard	Non Hazardous	Personal Protection
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON : Cleaning Compound	
	Non Hazardous	

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	None	

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product.