



**MATERIAL SAFETY DATA SHEET**  
(Essentially similar to U.S. Department of Labor Form OSHA 174)

Identity: Lemon Fresh Disinfectant Cleaner EPA Registration # 6836-73-75821	Chemical Family: Quaternary Ammonium Disinfectant Cleaner
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## SECTION I

Manufacturer: ProForce, Inc. Address: 8300 Capital Drive Greensboro, NC 27409 USA	<b>Emergency Medical Telephone #:</b> (800)304-0824 or call collect 0(303)592-1709 (24 hours) <b>Telephone # &amp; Web Address for Other Info:</b> (888) 586-9838 or www.ProForceCleaners.com <b>Date Prepared:</b> August 23, 2004
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## SECTION II - Hazardous Ingredients/Identity Information

(Hazardous Ingredients as Defined by OSHA, 29 CFR 1910.1200)

Hazardous Components	CAS #	OSHA PEL	ACGIH TL	OTHER LIMITS RECOMMENDED
Alkyl dimethyl benzyl ammonium chloride	64824-85-1	N.A.	N.A.	U.I.
Octyl decyl dimethyl ammonium chloride	68424-95-3	N.A.	N.A.	U.I.
Dioctyl dimethyl ammonium chloride	68424-95-3	N.A.	N.A.	U.I.
Didecyl dimethyl ammonium chloride	68424-95-3	N.A.	N.A.	U.I.
Ethyl Alcohol	64-17-5	1000	1000	U.I.

This mixture, when tested as a whole, is considered corrosive to the eyes within the meaning of OSHA Hazard Communication Standard.

## SECTION III - Physical/Chemical Characteristics

Boiling Point: U.I.	Specific Gravity (Water=1): 1.022
Vapor Pressure (mm Hg.): U.I.	Melting Point: N.A.
Vapor Density (AIR=1): U.I.	Evaporation Rate: U.I. (Butyl Acetate=1)
Solubility in Water: Soluble	
Appearance and Odor: Clear yellow liquid; fresh lemon fragrance	

## SECTION IV - Fire and Explosion Hazard Data

Flash Point(TCC) >200°F	Flammable Limits % by Vol	LEL: N.A.	UEL: N.A.
Extinguishing Media: Carbon dioxide, dry chemical, or water			
Special Fire Fighting Procedures: Wear MSHA/NIOSH self-contained breathing apparatus and protective clothing			
Unusual Fire and Explosion Hazards: Decomposition products include: oxides of carbon, nitrogen, ammoniacal vapors			

## SECTION V - Reactivity Data

Stability	Unstable:	Conditions to Avoid: None
	Stable: X	
Incompatibility (Materials to Avoid): Strong oxidizing agents		
Hazardous Decomposition or Byprod: Nitrous oxides and ammoniacal vapors		
Hazardous Polymerization	May Occur:	Conditions to Avoid: None
	Will Not Occur: X	



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## SECTION VI - Health Hazard Data

Primary Route(s) of Entry:	SKIN (X)	EYES (X)	INGESTION (X)	INHALATION ( )		
Health Hazards (Acute and Chronic):	Acute: Corrosive. Concentrate causes eye damage and skin irritation. Harmful if swallowed. Chronic: Not a known hazard.					
Signs and Symptoms of Exposure:	Eyes:	Direct contact can cause severe eye damage. Corrosive.				
	Ingestion:	Immediate burning pain in the mouth, throat, abdomen and severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock and/or convulsions. May be fatal.				
	Skin:	Direct contact can cause severe irritation. Corrosive.				
Carcinogenicity:	NTP?	NO	IARC Monographs?	NO	OSHA Regulated?	NO
Medical Conditions - Generally Aggravated by Exposure:	None Known					
Emergency and First Aid Procedures:	Eyes:	Immediately flush with plenty of water for at least 15 minutes. Call a physician.				
	Skin:	Immediately flush with plenty of water for at least 15 minutes. Call a physician. Remove and wash all contaminated clothing before reuse.				
	If Swallowed:	Drink milk, egg whites, or gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Call a physician.				
Note to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.					

## SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled:	Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of the sewers and open bodies of water.
Waste Disposal Method:	Dispose of in accordance with all federal, state, and municipal requirements. Incineration is the preferred method of disposal.
Precautions to be Taken in Handling and Storing:	No unusual precautions necessary
Other Precautions:	Do not mix with any other chemicals unless recommended by ProForce,