



MATERIAL SAFETY DATA SHEET

Issue Date: 9/04
Supersedes: 7/01

SECTION I - CHEMICAL PRODUCT		
Identity: Food Contact Surface Sanitizer		
Brands: CLEAN QUICK Liquid Quaternary Sanitizer		
Hazard Rating: 3	Health: 3	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2= MODERATE
		1=SLIGHT
Emergency Telephone Number - 1-800-332-7787 or call Local Poison Control Center		

SECTION II – COMPOSITION AND INGREDIENTS			
Ingredients/Chemical Name: (Actives) Mixture of N-Alkyl (C ₁₂₋₁₈)-N,N-dimethyl –N-benzylammonium chloride and N-Alkyl (C ₁₂₋₁₄)-N,N-dimethyl-N-ethylbenzylammonium chloride			
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. (exception: water)			
Chemical Name	CAS No.	TWA/TLV	Composition Range (%)
N-Alkyl (C ₁₂₋₁₈)-N,N-dimethyl –N-benzylammonium chloride	68391-01-5	None established	7.00
N-Dodecyl-N,N-dimethyl-N- ethyl benzylammonium chloride	27479-28-3	None established	4.7
N-Tetradecyl-N,N-dimethyl-N- ethyl benzylammonium chloride	27479-29-4	None established	2.3
Ethanol	64-17-5	ACGIH TLV: 1000 mg/m ³	1-4
Water	7732-18-5		balance

SECTION III - HAZARDS IDENTIFICATION	
Health Hazards (Acute and Chronic):	
Eye:	Concentrate causes possible irreversible eye damage. Use dilution may cause mild irritation.
Skin:	Concentrate causes severe skin irritation and/or chemical burns. Use dilution may cause mild skin irritation.
Ingestion:	Concentrate can produce immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. Dilute is a mucous membrane irritant. Oral ingestion may result in mild gastrointestinal irritation with nausea, vomiting and/or diarrhea.
Inhalation:	Mucous membrane irritant.

SECTION IV - FIRST AID INFORMATION**Emergency and First Aid Procedures:**

- Eye contact:** Hold eyelids open and flush thoroughly with a steady, gentle stream of water for 15 minutes. Call a physician. If a physician is not available, flush for an additional 15 minutes and transport victim to medical care.
- Skin contact:** Wash with plenty of soap and water for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.
- Oral ingestion:** Promptly drink 1-2 glasses of milk or water. DO NOT induce vomiting. If vomiting occurs, give fluids again. Call a doctor or get medical attention.
- Inhalation:** Get fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

****NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): >200°F (Setaflash) **Explosive Limits:** *LEL:* N/A *UEL:* N/A

Extinguishing Media: CO₂, water, or dry chemical

Special Fire Fighting Procedures: Use water spray to keep fire exposed container cool.

Unusual Fire Hazards: Products of combustion are toxic. Product will produce a brief flash but will not support combustion when in contact with open flame above the indicated flash point.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Rubber or neoprene gloves to prevent skin contact. Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields where there is no potential for eye contact.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Small quantities may be slowly flushed down sewer with excess water or dispose as liquid scrap.

Steps To Be Taken in Case Large Quantities of Material Are Released or Spilled: Warning: Corrosive liquid (as concentrate). Wear appropriate protective equipment and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred for large spills). Contain spill with inert material and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water, food, or feed by storage or disposal. Keep under storage sufficient to make it inaccessible to children or persons unfamiliar with the use.

Other Precautions: Triple rinse empty original container before disposal. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not reuse empty container.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.
Ventilation *Local Exhaust:* Not necessary.

Eye Protection: Goggles or face shield required when handling concentrate. None required at use dilution

Protective Gloves: Rubber gloves are required when handling concentrate. None required at use dilution.

Other Protective Equipment: Use goggles and gloves when handling concentrated product. None required with normal use. Easily accessible water source is needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: 212°F	Specific Gravity (H₂O=1): 0.99
Vapor Pressure (mm Hg): N/A	Percent Volatile by Volume (%): ca. 86
Vapor Density (Air=1): <1	Evaporation Rate (nBuOAc=1): N/K
Odor Threshold: N/A	Freezing Point: N/A
Coefficient of Water/Oil Distribution: N/A	pH (10% solution): 6.5-7.5
Scooped Density: N/A	Solubility in Water: Completely
Appearance and Odor: Red liquid, slight odor	Reserve Alkalinity: N/A

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions/By Products: None known

Conditions to Avoid: None known

Materials to Avoid: Strong oxidizing or reducing agents

Hazardous Decomposition Products: Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

Other Recommendations: None

Stability: Stable

Hazardous Polymerization: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

LD50 (rats oral): 250 mg /kg

