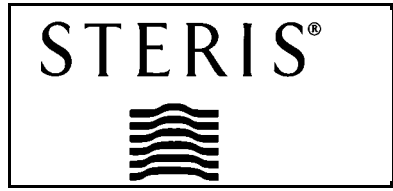


Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.



Product Name	Product Description	Product ID
PROCESS NPD	QUATERNARY GERMICIDAL DETERGENT	6390

SECTION I

Manufacturer's Name STERIS Corporation	Emergency Telephone Number 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)	Health	3
		Fire	1
Address P.O. Box 147 St. Louis, Missouri 63166	Telephone Number for Information 1-800-444-9009 (Customer Service - Scientific Products)	Reactivity	0
		Least Slight Moderate High Extreme	
	Date Prepared: July 1, 1999	0 1 2 3 4	
Prepared by: M. Ebers			

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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Hazardous Components (Specific Chemical Identity; Common Name(s))	% by Wt.	ACGIH TLV	OSHA PEL	Other Limits Recommended
Octyl decyl dimethyl ammonium chloride (68424-95-3)	4.60	N/A	N/A	
Dioctyl dimethyl ammonium chloride (68424-95-3)	2.30	N/A	N/A	
Didecyl dimethyl ammonium chloride (68424-95-3)	2.30	N/A	N/A	
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride (68424-85-1)	6.14	N/A	N/A	
Monoethanolamine (141-43-5)	6.00	3ppm	3ppm	STEL=6ppm

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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Solubility in Water	Complete	Specific Gravity (H₂O=1 @ 25C)	1.03
Freezing Point F	20F	% Volatile by wt @ 105C/1 hr	77.5
pH @ 1:256 Soln	~ 10.2	pH as Distributed	~ 10.6
Appearance	Straw liquid	Odor	Characteristic

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point (Method Used)	None to boil	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	Suitable for surrounding fire - water, foam, dry chemical, CO ₂ .				
Special Fire Fighting Procedures	N/A				

Unusual Fire and Explosion Hazards

N/A

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials to Avoid)		None known.	
Hazardous Decomposition or Byproducts		Forced ignition of dried residues may produce CO, CO ₂ , nitrogen oxides.	
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

PROCESS NPD

SECTION VI - HEALTH HAZARD DATA

A. ACUTE (Primary Route of Exposure)

EYES AND SKIN: Undiluted product is corrosive to tissues. Dermal LD₅₀ (rabbits) is 830mg/kg.

INHALATION: Rats exposed to 63.7mg/liter of a 1:256 dilution for six hours showed no toxic effects. Finely divided spray mists of use-dilution irritating to mucous membranes.

INGESTION: Oral LD₅₀ (rats) 1.32 g/kg. Concentrate corrosive to mouth and throat.

B. SUBCHRONIC, CHRONIC, OTHER: None known.

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

EYES: Immediately flush with running water for 15 minutes and get medical attention.

SKIN: Immediately wash thoroughly with running water to remove product. Remove and wash contaminated clothes before reuse.

INHALATION: Remove source of irritation, move affected individual to fresh air.

INGESTION: Drink a large quantity of milk, egg whites, gelatin solution, water. DO NOT INDUCE VOMITING. Call physician. Probable mucosal damage may contraindicate use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING & USE

Spill Management:	Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water.
Waste Disposal Methods:	Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with state, local and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.
Precautions to be taken in handling and storage:	This product will withstand an occasional accidental freezing without loss in normal performance characteristics. It must be thoroughly thawed and agitated (roll drum) before being used. For industrial and institutional use only. Read and observe all labeled use instructions.
Shipping information:	UN/DOT Classification: Disinfectant, Liquid, Corrosive N.O.S. (Quaternary Ammonium Compounds) 8, UN 1903, PG III

SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES

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Respiratory:	N/A
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Eyes:	Safety glasses or goggles	Gloves:	Rubber.
Other Clothing and Equipment:	N/A		
Ventilation:	Normal room ventilation.		