EPA Reg. No. 47371-130-1658 EPA Est. No. 1658-MO-1					
	nability = 0 nability = 1	Reactivity = Reactivity =	0 0		
SECTION I IDENTITY AND MANUFACTURER'S INFORMATION(528N-21A)Manufacturer's Name:HILLYARD INDUSTRIESProduct Name:Q.T.Address:302 North Fourth StreetDate Prepared:August 20, 2008St. Joseph, MO 64501Prepared by:Regulatory Affairs Department					
Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.) Other information calls: (816) 233-1321 (Ext. 8285) http://www.hillyard.com					
SECTION II INGREDIENTS/IDENTITY INFORMATION					
Components (Specific Chemical Identity:			ACGIH	OTHER LIMITS	
Common Name(s)	CAS#	OSHA PEL	TLV	RECOMMENDED	%
Didecyl dimethyl ammonium chloride	7173-51-5	not established	N/A	N/A	5.07
$n-Alkyl (C_{14} 50\%, C_{12} 40\%, C_{16} 10\%)$	8001-54-5	not established	N/A	N/A	3.38
dimethyl benzyl ammonium chloride	0001 01 0	not estublished	1011	1011	5.50
Alcohols, C_{9-11} , ethoxylated	68439-46-3	not established	N/A	N/A	
Ethylenediamine tetraacetic acid	60-00-4	not established	N/A	N/A	1 - 3
Sodium hydroxide	1310-73-2	not established	N/A	N/A	
Deionized water	7732-18-5	none	N/A	N/A	
SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS Boiling Point: 203°F Specific Gravity (H ₂ O = 1): 25°C = Vapor Pressure (mm Hg.): 17.7 Percent Volatile by Volume (%): 88.8 Vapor Density (AIR = 1): 0.7 Evaporation Rate (ethyl ether = 1): slower than 1 Solubility in Water: complete Appearance and Odor: clear, red liquid; herbal odor pH of concentrate: 7.2 – 8.2					
Flash point: >200°F (Tag Closed Cup) Flammable Limits: LEL = Not applicable UEL = Not applicable Extinguishing Media: Foam, Alcohol foam, carbon dioxide, dry chemical, water Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire–exposed containers with water spray. Unusual Fire and Explosion Hazards: Products of combustion are toxic.					
SECTION V PHYSICAL HAZARDS					
Stability:StableConditions to Avoid:N/AIncompatibility (Materials to Avoid):Strong oxidizing and reducing agents.Hazardous Decomposition Products or Byproducts:Thermal decomposition may produce toxic vapors/fumes ofhydrogen chloride, amines, and other organic materials, and oxides of carbon and nitrogenHazardous Polymerization:will not occurConditions to Avoid:					
SECTION VI HEALTH HAZARD DA	ТА				
Routes of entry:Inhalation?yesSkin?yesEye?YesIngestion?yesHEALTH HAZARDS (1. Acute and 2. Chronic)1. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. When handling product, protect eyes by wearing goggles or face shield and protect skin by wearing rubber gloves. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. LD50 Rat = 1270 mg/kg; dermal LD50 (rabbit) 3150 mg./kg.; eye irritation (rabbit) = Severe irritant; skin irritation (rabbit) = severe irritant on similar alkaline formulation containing 7% active quat.					
Shinai aikanne formulation containing 7% active quat. 2. None known to minyard.					

MATERIAL SAFETY DATA SHEET

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No Signs and Symptoms of Exposure: Causes irreversible eye damage. Do not get in eyes or clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Avoid contact with skin. Harmful if inhaled. Avoid breathing spray mist.

Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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SECTION VI -- HEALTH HAZARD DATA continued:

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer.

Emergency and First Aid Procedures: If in eyes: Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. **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: Caution. Floors may become slippery. Wear appropriate protective gear and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). 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 sewers and open bodies of water.

Waste Disposal Method: Dispose of in compliance with all Federal, State and local laws and regulations. Incineration is the preferred method.

Precautions To Be Taken In Handling And Storing: Keep away from children.

Other Precautions: Store in original container in areas inaccessible to children. Open dumping is prohibited Do not reuse empty container. Wrap and discard in trash or recycle. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Ventilation: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection (Specify Type): In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Protective Gloves: Rubber or neoprene, when needed, to prevent skin contact with concentrate.

Eye Protection: Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Clothing or Equipment: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed to prevent skin contact with concentrate.

Storage and Handling: Store at temperatures below 140°F. Keep container closed until used. Do not contaminate drinking water, food or feed by storage or disposal. **Work / Hygienic Practices:** Wash hands thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: $DOT = \underline{Yes}$; $IMCO = \underline{Yes}$; $IATA = \underline{Yes}$

Proper shipping name (Gallon Boxes) for U.S. Highway: Consumer Commodity ORM-D

Proper shipping name (5 & 55 Gallon Drums) for U.S. Highway: <u>Disinfectants, Liquid, Corrosive, N.O.S.</u> (Didecyl dimethyl ammonium chloride, N-alkyl dimethyl benzyl ammonium chloride), 8, UN 1903, PG III

Proper shipping name (1, 5 & 55 Gallons) for Air and Water: <u>UN 1903</u>, <u>Disinfectants</u>, <u>Liquid</u>, <u>Corrosive</u>, <u>N.O.S.</u>, (<u>Didecyl</u> dimethyl ammonium chloride</u>, <u>N-alkyl</u> dimethyl benzyl ammonium chloride), 8, III

UN No.: UN1903Limited Qty.: not applicableHazard Class: 8

Label required: <u>Not required on gallon boxes by highway; 5 & 55 gallon drum = Corrosive Label; 1 gallon by Air & Water =</u> <u>Corrosive Label</u>

DOT Exception: Not applicable

EPA Hazardous waste/number code: Not listed

Hazardous waste characteristics:

Ignitability = <u>Not applicable</u>; **Corrosivity** = <u>Not applicable</u>; **Reactivity** = <u>Not applicable</u>

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