

**MATERIAL SAFETY DATA SHEET**

Per 29 CFR 1910.1200

DATE PREPARED : 10/14/02

**SECTION I.**

**BRULIN & COMPANY. INC.** P.O. BOX 270, INDIANAPOLIS, IN 46206-0270 (317) 923-3211

WEST COAST FACTORY  
Richmond, California

24 HOUR EMERGENCY NUMBER  
CHEMTREC 1-800-424-9300

IDENTITY (As listed on label):  
**QUAT CLEAN IV**

Health: 2  
HMIS HAZARD RATINGS: Flammability: 0  
Reactivity: 0

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #	OSHA PEL	ACGIH TLV-TWA	OTHER LIMITS RECOMMENDED	PERCENT
n-Alkyl (C14, 50%; C12, 40%; C16, 10%)					
Dimethyl Benzyl Ammonium Chloride	68424-85-1	Not Estab.	Not Estab.	None	< 5
Octyl decyl dimethyl ammonium chloride	32426-11-2	Not Estab.	Not Estab.	None	< 5
Dioctyl dimethyl ammonium chloride	5538-94-3	Not Estab.	Not Estab.	None	< 5
Didecyl dimethyl ammonium chloride	7173-51-5	Not Estab.	Not Estab.	None	< 5

**SECTION 313 SUPPLIER NOTIFICATION**

The toxic chemical(s) listed above which are marked with an (\*) are 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. Not all chemicals subject to Section 313 of EPCRA appear on the OSHA Floor List of Hazardous Chemicals.

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point:	Not Known	Specific Gravity (H2O=1):	0.9895
Vapor Pressure ():	Not Known	Melting Point:	Approx. 30 F
Vapor Density (Air=1):	Not Known	Evaporation Rate (n Butyl Acetate=1):	Not Known
Solubility in Water:	Complete		

Appearance and Odor: Red liquid, mild quat odor.

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): Above 200 F

Flammable Limits LEL NA UEL NA

Extinguishing Media: Dry Chemical, CO2, Alcohol Foam, Water Fog

Special Fire Fighting Procedures: Must wear MSHA/NIOSH 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. Solvent vapors can travel to an ignition source and flash back.

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**SECTION V - REACTIVITY DATA**

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Stability Unstable \_\_\_ Stable X Conditions to Avoid: None known  
Incompatibility (Materials to Avoid): Strong oxidizers or reducing agents.  
Hazardous Decomposition or Byproducts: Thermal decomposition can produce toxic fumes of hydrogen chloride, and oxides of carbon and nitrogen.  
Hazardous Polymerization: May Occur \_\_\_ May Not Occur X  
Conditions to Avoid: Mixing with strong oxidizers or reducing agents.

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**SECTION VI - HEALTH HAZARD DATA**

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Route(s) of Entry: Ingestion? Yes Skin? Yes Inhalation? Yes Eyes? Yes  
Health Hazards (Acute and Chronic): Eye--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. Inhalation--Solvent vapors or mists of product can cause irritation of mucous membranes.  
Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No  
Signs and Symptoms of Exposure: See information given above.  
Medical Conditions Generally Aggravated by Exposure:  
Emergency & First Aid Procedures:  
Eye Contact: Flush with large amounts of water for at least 15 minutes lifting upper & lower lids occasionally. Get medical attention.  
Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. Get medical attention.  
Skin Contact: Wash with mild soap and water. Remove contaminated clothing and launder before reuse. Get medical attention.  
Ingestion: If conscious, drink promptly large quantity of egg whites, gelatin solution or if these are not available drink large quantities of water. Avoid alcohol. DO NOT induce vomiting. Get medical attention immediately.  
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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Steps to be Taken in Case Material is Released or Spilled: Remove ignition sources. Wear appropriate protective equipment and MSHA/NIOSH approved respirator where mists or vapors of unknown concentration may be generated. Dike and contain spill with inert material and transfer the liquid and solid to separate containers for recovery or disposal. Keep spill out of sewers. Small spills may be mopped up or flushed away with water or absorbed on absorbant material and incinerated.  
Waste Disposal Method: Dispose of according to Federal, State and Local Laws and 40 CFR.  
Precautions to be Taken in Handling and Storing: Store between 40 and 120 F and in original containers.

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**SECTION VIII - CONTROL MEASURES**

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Respiratory Protection (Specify Type): NIOSH/MSHA approved respirator is advised in the absence of environmental controls or if mist or vapor is present.  
Ventilation: Provide sufficient mechanical (general and/or local exhaust) to maintain exposure below TLV's.  
Protective Gloves: Neoprene or butyl rubber on prolonged contact.  
Eye Protection: Goggles or safety glasses when handling product.  
Other Protective Clothing or Equipment: Eye wash, safety shower, coveralls or other as appropriate to prevent skin contact. Wear face shield.  
Work/Hygienic Practices: Avoid breathing spray mist.