

Quat 267 One-Step Germicidal
Cleaner And Deodorant

912B

SANIVAC INC./DAVIS MANUFACTURING
CLEANING IDEAS CORP.
1023 MORALES STREET/SAN ANTONIO, TX 78207-0269
210-227-9161 FAX 210-227-0002
SIC NO. 5087

PRODUCT: QUAT 267

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MATERIAL	DATE ISSUED	DOT HAZARD CLASSIFICATION
Formulation HS-267Q	01/30/02 - Rev.	Non-Hazardous
Germicidal Cleaner/Deodorant		DOT SHIPPING NAME
CAS. NO. Mixture	SUPERCEDES	Not regulated
	01/10/02	DOT LABEL None
FORMULA Mixture		

CHEMICAL NAME (Actives): N,N-Didecyl-N,N-dimethylammonium chloride and Alkyl(50%, C₁₂; 40%, C₁₁; 10%, C₁₀)dimethylbenzylammonium chloride

***** I - INGREDIENTS *****

	APPROXIMATE WEIGHT %	TWA/TLV
N,N-Didecyl-N,N-dimethylammonium chloride (CAS No. 7173-51-5)	1.9	None established
N-Alkyl(C ₁₀₋₁₂)-N,N-dimethylbenzylammonium chloride (CAS No. 8001-54-5)	1.2	None established
N,N-Dimethyl-octylamine-N-oxide (CAS No. 2605-78-9)	0.8	None established
Ethanol (CAS No. 64-17-5)	0.5	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)
Tetrasodium ethylenediamine tetraacetate (CAS No. 150-38-9)	0.4	None established
Fragrance (Optional) (CAS No. Not applicable)	0 - 1	None established
Dye (Optional) (CAS No. Not applicable)	0.1	None established
Water (CAS No. 7732-18-5)	94.1 - 95.1	None established

***** II - PHYSICAL AND CHEMICAL PROPERTIES *****

APPEARANCE Colorless liquid (Color depends upon optional dye added)	pH 10 - 11
VISCOSITY Not known	ODOR Varies with optional fragrance added
BOILING POINT Not known	MELTING OR FREEZING POINT Not known
VAPOR DENSITY (Air=1) Not known	VAPOR PRESSURE (mm Hg) Not known
PERCENT VOLATILE (by weight) 95 %	SPECIFIC GRAVITY (Water=1) 1.0
EVAPORATION RATE (Butyl Acetate=1) Not known	SOLUBILITY IN WATER Soluble

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***** III - FIRE AND EXPLOSION INFORMATION *****

FLASH POINT >200°F	AUTO IGNITION TEMPERATURE Not known
LOWER EXPLOSION LIMIT (%) Not known	UPPER EXPLOSION LIMIT (%) Not known
EXTINGUISHING MEDIA FOAM	ALCOHOL FOAM X CO ₂ X
DRY CHEMICAL X	WATER X OTHER

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.

***** IV - HEALTH EFFECTS INFORMATION *****

ROUTES OF ENTRY - SKIN CONTACT X	EYE CONTACT X
INHALATION X	INGESTION

EFFECTS OF OVEREXPOSURE
No health effects information available for human exposure. Based upon the available animal toxicity information for similar material(s), it is anticipated that direct contact with this material may possibly produce severe eye and/or skin irritation. Prolonged exposure may cause chemical burns with possible irreversible damage. Ingestion may cause immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx. Ingestion can cause skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. Solvent vapors or mists of product may cause irritation of mucous membranes.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS:
No effects indicated.

EMERGENCY AND FIRST AID PROCEDURES:
For eyes contact, immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.

For skin contact, wash with plenty of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting does occur, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person. (See "Note to Physician" in Section X).

If inhaled, remove from area to fresh air. Get immediate medical attention. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available.

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***** IV - HEALTH EFFECTS INFORMATION (continued) *****

CHEMICALS LISTED AS CARCINOGEN BY:

NATIONAL TOXICOLOGY PROGRAM - No
I.A.R.C. MONOGRAPHS - No
OSHA - No

NOTE TO PHYSICIAN:

Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

***** V - REACTIVITY INFORMATION *****

STABILITY: STABLE X CONDITIONS TO AVOID
UNSTABLE None known

HAZARDOUS DECOMPOSITION PRODUCTS

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

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID
MAY WILL NOT X None known
OCCUR OCCUR

INCOMPATIBILITY (MATERIALS TO AVOID)

WATER OTHER X Strong oxidizing or reducing agents.

***** VI - SPILL AND DISPOSAL INFORMATION *****

STEPS TO BE TAKEN IN CASE OF MATERIAL SPILL OR RELEASE

CAUTION! Irritant liquid. Floors may become slippery. Wear appropriate protective equipment and NIOSH/MSHA approved respirator where mists 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 METHODS

Dispose of in compliance with all Federal, state and local laws and regulations. Incineration is the preferred method.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then 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.

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***** VII - PERSONAL PROTECTION INFORMATION *****

ENGINEERING CONTROLS

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

RESPIRATORY PROTECTION

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, to prevent skin contact.

EYE PROTECTION

Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields when there is no potential for eye contact.

OTHER PROTECTIVE EQUIPMENT

Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

***** VIII - STORAGE AND HANDLING *****

PRECAUTIONS FOR STORAGE AND HANDLING:

Maximum storage temperature: 140°F. Keep containers closed when not in use. Do not contaminate drinking water, food or feed by storage or disposal.

***** IX - TOXICOLOGY INFORMATION *****

TOXICITY

No toxicity information is available for this specific material. The toxicity information provided is for a similar formulation(s) (containing the C8-10 Dialkyl dimethylammonium chloride in place of the C10 Dialkyl dimethylammonium chloride, as well as, N-Alkyl (C12-16)dimethylbenzylammonium chloride component of this formulation) and components Barlox 10S (N,N-Dimethyl-octylamine-N-oxide, 30% in water).

ACUTE

For Lonza Formulation S-38 (Formulation contains 3.8% Actives with surfactant and pH-13):

- oral LD₅₀ (rat): 1850 mg/kg
- dermal LD₅₀ (rabbit): 4430 mg/kg
- eye Irritation (rabbit - 1:64 Dilution): Essentially not an irritant.
- skin Irritation (rabbit - 1:64 Dilution): Not an irritant.

For Lonza Formulation S-23 (Formulation contains 4% Actives with surfactant and pH-13):

- oral LD₅₀ (rat): 3550 mg/kg
- dermal LD₅₀ (rabbit): 6250 mg/kg
- eye Irritation (rabbit): Severe irritation with and without washing.
- skin Irritation (rabbit): Severe irritation.

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***** IX - TOXICOLOGY INFORMATION (continued)*****

TOXICITY (continued)

ACUTE (continued)

For Lonza Formulation S-21 (Formulation contains 5.5% Actives with surfactant and pH-12):

- oral LD₅₀ (rat): 2800 mg/kg
- dermal LD₅₀ (rabbit): 2850 mg/kg
- eye Irritation (rabbit): Severe irritation with and without washing.
- skin Irritation (rabbit): Severe irritation.
- skin corrosivity (rabbit - DOT): Not a corrosive.

For Barlox 10S (N,N-Dimethyl-octylamine-N-oxide, 30% in water)

- oral LD₅₀ (rat): 3298 mg/kg
- skin corrosivity (rabbit - DOT): Not a corrosive. Moderate to severe irritant.

***** X - MISCELLANEOUS AND REGULATORY INFORMATION *****

FEDERAL LEVEL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

The component(s) of this product are currently listed on U.S. EPA TSCA 8(b) inventory list. While the CAS number 8001-54-5 is not listed on the TSCA inventory, an alternate CAS number for this material (68424-85-1) is listed on the TSCA inventory.

TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
EXEMPT - EPA FIFRA Registered Product		

EPA REGULATION ON PESTICIDES

This product is an EPA FIFRA registered pesticide, EPA registration number 47371-37. This product can only be used commercially in the EPA FIFRA registered application(s) noted on the product label.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

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***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

FEDERAL LEVEL REGULATIONS (continued):

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Hazard *) Categories</u>
N,N-Didecyl-N,N-dimethylammonium chloride	7173-51-5	A
N-Alkyl(C ₁₀₋₁₈)-N,N-dimethylbenzylammonium chloride	8001-54-5	A

*) The five hazard categories are as follows: F=FIRE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

SARA Title III Section 313 - This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

AS A CANCER HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	300 ppb
Benzene	71-43-2	30 ppm
Benzyl chloride	100-44-7	30 ppm
N-Nitrosodimethylamine	62-75-9	150 ppb
Propylene oxide	75-56-9	3 ppm

AS A REPRODUCTIVE HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	30 ppm
Toluene	108-88-3	30 ppm

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***** X - MISCELLANEOUS AND REGULATORY INFORMATION (continued) *****

STATE RIGHT-TO-KNOW REGULATIONS (continued):

MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	300 ppb
Benzene	71-43-2	30 ppm
Benzyl chloride	100-44-7	30 ppm
Propylene oxide	75-56-9	3 ppm

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
N,N-Didecyl-N,N-dimethylammonium chloride	7173-51-5	1.9 %
N-Alkyl(C ₁₂₋₁₈)-N,N-dimethylbenzylammonium chloride	8001-54-5	1.2 %

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	30 ppm

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