This MSDS should be attached or kept with the respective product with which it is associated.

<table>
<thead>
<tr>
<th>1. INGREDIENT</th>
<th>C.A.S. NO.</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER..........</td>
<td>7732-18-5</td>
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<td>60624-05-1</td>
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<td>OCTYLDECYLDIMETHYLMONONIUM CHLORIDE</td>
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<tr>
<td>ETHYL ALCOHOL</td>
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</tr>
<tr>
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<td>SODIUM METASULFITE</td>
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</tr>
<tr>
<td>FRAGRANCE</td>
<td>UNKNOWN</td>
<td>0.5 - 1.5</td>
</tr>
<tr>
<td>DYE</td>
<td>UNKNOWN</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

100%                  WHEN USING THIS PRODUCT WITH THE DEMAND FUNCTION, USE IN COMPLIANCE WITH THE EMERGENCY USE FUNCTION.

ABBREVIATIONS: N/D - NOT DETERMINED  N/A - NOT APPLICABLE  CA - APPROXIMATELY  MSDS: IN BRANDING DISINFECTANT CLEANER CONCENTRATE
2. PHYSICAL DATA

BOILING POINT: ............... CA. 313 F
VAPOR PRESSURE: ............... N/D
VAPOR DENSITY: ............... N/D
EVAPORATION RATE: ............... N/D
SOLUBILITY IN WATER: ............... COMPLETE
SPECIFIC GRAVITY: ............... CA. 1.08 WATER=1
PERCENT VOLATILE: ............... 65 - 70 %
MTBT: ............... CA. 12.6
VISCOITY: ............... < 100 CENISSEUSE
MELTING POINT: ............... N/A
APPEARANCE AND ODOR:
LIQUID, CLEAR, GREEN COLOR, PLEASANT ODOR.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: ............... 133 F VOC
FLAMMABLE LIMITS - LEL: ............... N/D
FLAMMABLE LIMITS -UEL: ............... N/D
APPOIGNITION TEMPERATURE: ............... N/D

EXTINGUISHING MEDIA:
WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED,
POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, LONGER COAT
AND PANTS, RAMPS AROUND ARMS, WAIST AND LEGS, FACE MASK, AND
PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD.
USE FRASER AIR RESPIRATOR.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
SEE HAZARDOUS DECOMPOSITION SECTION FOR PRODUCTS OF COMBUSTION.
CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY Builds PRESSURE AND
EXPLODE.

NFPA HAZARD CODES: HEALTH: 3 FIRE: 2 REACTIVITY: 0
UNUSUAL REACTION HAZARD: CORROSIVE
OSHA FIRE HAZARD CLASS: CLASS II COMBUSTIBLE LIQUID

ABBREVIATIONS: N/D = NOT DETERMINED N/A = NOT APPLICABLE CA = APPROXIMATE
NEB: IN BRAND QTY DISINSECTANT CLEANER CONCENTRATE

(PRODUCT NO. 5, TWIST 6 H FILL (TM) SYSTEM)

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
HIGHLY ALKALINE MATERIAL, AVOID MIXING WITH STRONGLY ACIDIC
MATERIALS, RAPID HEATING AND SPATTERING OF MIXTURE MAY RESULT.
HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE AND CARBON DIOXIDE, OXIDES OF NITROGEN, HYDROGEN
CLOSING.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
REFER TO OTHER SECTIONS OF THIS MSDS FOR INFORMATION REGARDING
PHYSICAL AND HEALTH HAZARDS, RESPIRATORY PROTECTION, VENTILATION, AND
PERSONAL PROTECTIVE EQUIPMENT, VENTILATE AREA, EXTINGUISH ALL
IGNITION SOURCES. CONTAIN SPILL. EVACUATE UNPROTECTED PERSONNEL FROM HAZARD AREA. COVER WITH INORGANIC ABSORBENT MATERIAL. DILUTE IN A LARGE EXCESS OF WATER. CAREFULLY, AND WITH STIRRING, ADD APPLICABLE DILUTE ACID SUCH AS SULFURIC ACID OR VINEGAR. CONFIRM NEUTRALITY. COLLECT USING NON-SparkING TOOLS. CLEAN UP RESIDUE WITH WATER. PLACE IN A POLYETHYLENE-LINED METAL CONTAINER. DO NOT SEAL FOR 48 HOURS.

RECOMMENDED DISPOSAL:
INCIERTATE IN A PERMITTED HAZARDOUS WASTE INCINERATOR. COMBUSTION PRODUCTS WILL INCLUDE HCL.

ENVIRONMENTAL DATA:
A PRODUCT ENVIROMENTAL DATA SHEET (PESD) IS AVAILABLE.
THIS PRODUCT IS A DISINFECTANT; IT IS TOXIC TO MICROORGANISMS. CARE MUST BE TAKEN TO AVOID IMPROPER DISPOSAL OR RELEASE TO THE ENVIRONMENT. WHEN PROPERLY HANDLED, USE OF THIS PRODUCT IS EXPECTED TO HAVE MINIMAL ENVIRONMENTAL IMPACT. MOST COMPONENTS OF THIS PRODUCT WILL EVENTUALLY DEGRADE IN THE ENVIRONMENT.

REGULATORY INFORMATION:

ABBREVIATIONS: N/D - NOT DETERMINED N/A - NOT APPLICABLE CA - APPROXIMATELY H028: 3M BRAND QUAT DISINFECTANT CLEANER CONCENTRATE (PRODUCT NO. 5, TWIST & FILL (TM) SYSTEM)

5. ENVIRONMENTAL INFORMATION (CONTINUES)

MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE QUALIFIES AS A REPORTABLE QUANTITY. U.S. E.S.A HAZARDOUS WASTE NUMBER = D001 (IGNITABLE) D032 (CORROSIVE) TSCA: ALL COMPONENTS USED IN THE MANUFACTURE OF THIS MATERIAL ARE IN COMPLIANCE WITH THE US TSCA INVENTORY.

FDCA HAZARD CLASS:
FIRE HAZARD: YES PRESSURE: NO REACTIVITY: NO ACUTE: YES CHRONIC: YES

6. SUGGESTED FIRST AID

EYE CONTACT:
IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:
IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES IN A CHEMICAL SAFETY SHOWER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE USE.

INHALATION:
IF SIGNS/SYMPTOMS OCCUR, REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS CONTINUE, CALL A PHYSICIAN.

IF SWALLOWED:
IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE VICTIM TWO GLASSES OF WATER. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: PROBABLE NECROSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

OTHER FIRST AID INFORMATION:
MEASURES AGAINST CIRCULATORY SHOCK, RESPIRATORY DEPRESSION, AND
7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

NOTE: WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST-FILL (TM) CHEMICAL DISPENSER, EYE CONTACT WITH THE CONCENTRATE IS NOT EXPECTED TO OCCUR. AVOID EYE CONTACT. THE FOLLOWING SHOULD BE WORN ALONE OR IN COMBINATION, AS APPROPRIATE, TO PREVENT EYE CONTACT:

ABBREVIATIONS: N/D - NOT DETERMINED  N/A - NOT APPLICABLE  CA - APPROXIMATELY

(MISS: 3M BRAND QUAT DISINFECTANT CLEANER CONCENTRATE  
(PRODUCT NO. 5, TWIST 'N FILL (TM) SYSTEM)

7. PRECAUTIONARY INFORMATION (CONTINUED)

WEAR VENTED GOGGLES. WEAR FULL-FACE SHIELD.

SKIN PROTECTION:

NOTE: WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST-FILL (TM) CHEMICAL DISPENSER, SKIN CONTACT WITH THE CONCENTRATE IS NOT EXPECTED TO OCCUR. AVOID SKIN CONTACT. WEAR APPROPRIATE GLOVES WHEN HANDLING THIS MATERIAL. A PAIR OF GLOVES MADE FROM THE FOLLOWING MATERIAL(S) ARE RECOMMENDED: BUTYL RUBBER, NEOPRENE, NATURAL RUBBER. USE ONE OR MORE OF THE FOLLOWING PERSONAL PROTECTION ITEMS AS NECESSARY TO PREVENT SKIN CONTACT: APRON, COVERALLS.

RECOMMENDED VENTILATION:

NOTE: WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST-FILL (TM) CHEMICAL DISPENSER, SPECIAL VENTILATION IS NOT REQUIRED. USE IN A WELL-VENTILATED AREA. PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EMISSIONS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXHAUST VENTILATION IS NOT ADEQUATE, USE APPROPRIATE RESPIRATORY PROTECTION.

RESPIRATORY PROTECTION:

NOTE: WHEN USED AS DIRECTED AND DILUTED AND DISPENSED WITH A TWIST-FILL (TM) CHEMICAL DISPENSER, RESPIRATORY PROTECTION IS NOT REQUIRED. AVOID BREATHING OF VAPORS, MISTS OR SPRAY. AVOID BREATHING OF AEROSOL MATERIAL.

PREVENTION OF ACCIDENTAL INGESTION:

DO NOT EAT, DRINK OR SMOKER WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. AVOID CONTAMINATION OF FOOD.

RECOMMENDED STORAGE:

STORE AWAY FROM AREAS WHERE PRODUCT MAY COME INTO CONTACT WITH FOOD OR PHARMACEUTICALS. DO NOT STORE CONTAINERS ON THEIR SIDES. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN.

FIRE AND EXPLOSION AVOIDANCE:

KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, AND OTHER SOURCES OF IGNITION. COMBUSTIBLE LIQUID AND VAPOR.

OTHER PRECAUTIONARY INFORMATION:

NOT INTENDED FOR CONSUMER SALE OR USE. THIS PRODUCT IS NOT INTENDED TO BE USED WITHOUT PRIOR DILUTION AS SPECIFIED ON THE PRODUCT LABEL. AVOID CRUSHING OR IMPACTING CONTAINER SIDE WALLS.

HGS: 3M BRAND QUAT DISINFECTANT CLEANER CONCENTRATE  
(PRODUCT NO. 5, TWIST 'N FILL (TM) SYSTEM)

7. PRECAUTIONARY INFORMATION (CONTINUED)
EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>VALUE UNIT</th>
<th>TYPE</th>
<th>NOTE</th>
<th>SKIN*</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>NONE</td>
<td>NONE</td>
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<td>NONE</td>
</tr>
<tr>
<td>ALKYL (C-10 50%, C-12 40%, C-14 10%) DIMETHYL ALKYL AMMONIUM CHLORIDE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
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</tr>
<tr>
<td>OCTYLISODIOCTYLTHIOLAURUM</td>
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<td>NONE</td>
</tr>
<tr>
<td>NONYLPHENOXYETHYL (OXYETHYLENE) ETHER</td>
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<td>NONE</td>
<td>NONE</td>
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</tr>
<tr>
<td>ETHANOL (\times 10^3)</td>
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<td>TWA</td>
<td>ACUTE</td>
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</tr>
<tr>
<td>ETHANOL</td>
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<td>TWA</td>
<td>ACUTE</td>
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</tr>
<tr>
<td>DIOCTYLISODIOCTYLAMMONIUM CHLORIDE</td>
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<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>TETRASODIUM SALT</td>
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<td>DIOCTYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>SODIUM METASILICATE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>FRAGRANCE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>DYE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
</tbody>
</table>

* Skin notation: listed substances indicated with * can enter skin refer to the potential contribution to the overall exposure by the cutaneous route. The pure membranes and eyes, either by aerosol or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

Source of Exposure Limit Data:
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NIOSH: Not Established

2. HEALTH HAZARD DATA

EYE CONTACT:
Chemical related eye burns (chemical corrosivity): signs/symptoms can include cloudy appearance of the cornea, chemical burns, pain, tearing, ulcers, impaired vision or loss of vision.

SKIN CONTACT:
Skin burns (chemical corrosivity): signs/symptoms can include redness, swelling, itching, pain, blistering, ulceration, swelling, and scar formation.
May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

ABBREVIATIONS: N/D - Not determined, N/A - Not applicable, CA - Approximately

QDS: in Brand Quart Disinfectant Cleaner Concentrate
(1 product no. 9, twist & fill (TM) system)

8. HEALTH HAZARD DATA (continued)

INHALATION:
Single overexposure, above recommended guidelines, may cause:
Central nervous system depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, dizziness and unconsciousness.
Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated exposure may cause:
Nervous system effects: signs/symptoms can include emotional changes, lack of coordination, tremors and sensory loss.
Lung damage: signs/symptoms can include coughing, difficulty breathing, wheezing, tightness in chest, congestion, and...
Coughing up of blood.

If swallowed:

Harmful or fatal if swallowed.

Damage to gastrointestinal tissues; signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomitus, blood in feces, and ulceration.

Other health hazard information:

Medical conditions aggravated by exposure; medical conditions, if any, known to be aggravated by exposure to this product are indicated in the appropriate portions of the health hazard data section of this data sheet.

Carcinogens: Components of this product, if any, known to cause, or suspected of causing, cancer as determined by GHS, IARC, or NTP are described in the health hazard data section of this data sheet in accordance with the GHS hazard communications standard, 29 CFR 1910.1200

INgredients Section changed since December 30, 1997 issue

Abbreviations: N/D - NOT DETERMINED N/A - NOT APPLICABLE CA - APPROXIMATELY

Neb: 3M BAND QUAT DISINFECTANT CLEANER CONCENTRATE ........... (PRODUCT NO. 5, TWIST & FILL THE SYSTEM)

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