3M Center St. Paul, MN 55144-1000 1-800-364-3577 or (651) 737-6501 (24 hours)

MATERIAL SAFETY DATA SHEET

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neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. DIVISION: COMMERCIAL CARE DIVISION TRADE NAME: 3M Brand NEUTRAL QUAT DISINFECTANT CLEANER CONCENTRATE (Product No. 23, Twist 'n Fill (tm) System) 00-48011-23552-8 70-0708-3143-6 00-48011-23583-2 70-0708-3105-5 ID NUMBER/U.P.C.: 70-0708-4022-1 00-48011-23552-8 70-0709-7764-3 00-48011-26056-8 00-48011-26057-5 00-48011-26057-5 70-0710-0728-3 70-0709-7765-0 00-48011-26056-8 70-0710-0729-1 70-0710-1485-9 00-48011-23890-1 ISSUED: APRIL 9, 2001 SUPERSEDES: OCTOBER 17, 2000 DOCUMENT: 08-5081-8 1. INGREDIENT C.A.S. NO. PERCENT ..... 7732-18-5 60 90 WATER 9.22 ALKYLBENZYLDIMETHYL, CHLORIDES ..... 8001-54-5 6.14 1 5 -1 \_ 5 ETHYL ALCOHOL ..... 64-17-5 5 1 SODIUM HYDROXIDE ..... 1310-73-2 HYDROGEN PEROXIDE ..... 7722-84-1 0.5 -1.5 < 0.02 2. PHYSICAL DATA ca. 212 F N/D VAPOR DENSITY: ..... N/D EVAPORATION RATE:.... N/D SOLUBILITY IN WATER: ..... complete SP. GRAVITY:.... ca. 1.0 Water = 1 ca. 75 % ca. 7.7 PERCENT VOLATILE: ..... pH: VISCOSITY: < 100 CPS MELTING POINT..... N/A APPEARANCE AND ODOR: Liquid, clear, dark green color, lemon odor. 3. FIRE AND EXPLOSION HAZARD DATA > 200 F T.C.C. FLASH POINT: . . . . . . . . FLAMMABLE LIMITS - LEL: ..... FLAMMABLE LIMITS - UEL: ..... N/D N/D AUTOIGNITION TEMPERATURE: ... N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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# 3. FIRE AND EXPLOSION HAZARD DATA (continued)

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, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition section for products of combustion. Closed containers exposed to heat from fire may build pressure and explode. NFPA HAZARD CODES: HEALTH: 3 FIRE: 1 REACTIVITY: 0 UNUSUAL REACTION HAZARD: corrosive

4. REACTIVITY DATA

STABILITY: Stable INCOMPATIBILITY - MATERIALS TO AVOID: None known. HAZARDOUS POLYMERIZATION: Will Not Occur HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Hydrogen Chloride.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue with water. Place in a closed container.

**RECOMMENDED DISPOSAL:** 

Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HCl.

ENVIRONMENTAL DATA: Not determined.

REGULATORY INFORMATION: Volatile Organic Compounds: 2 - 3 %. VOC Less H20 & Exempt Solvents: N/D.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

TSCA: All components used in the manufacture of this material are in compliance with the US TSCA inventory.

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5. ENVIRONMENTAL INFORMATION (continued)

EPCRA HAZARD CLASS:

FIRE HAZARD: No 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. Remove contaminated clothing. If irritation persists, call a physician. Wash contaminated clothing before reuse.

# 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 mucosal damage may contraindicate the use of gastric lavage.

# OTHER FIRST AID:

Measures against circulatory shock, respiratory depression, and convulsion may be needed.

# 7. PRECAUTIONARY INFORMATION

#### EYE PROTECTION:

NOTE: When used as directed and diluted and dispensed with a TWIST'n 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: Wear vented goggles. Wear full-face shield.

# SKIN PROTECTION:

NOTE: When used as directed and diluted and dispensed with a TWIST'n 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, nitrile rubber.

# VENTILATION PROTECTION:

NOTE: When used as directed and diluted and dispensed with a TWIST'n FILL (tm) Chemical Dispenser, special ventilation is not required.

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# 7. PRECAUTIONARY INFORMATION (continued)

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'n FILL (tm) Chemical Dispenser, respiratory protection is not required. Avoid breathing of vapors, mists or spray. Avoid breathing of airborne material.

# **PREVENTION OF ACCIDENTAL INGESTION:**

Do not eat, drink or smoke 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.

#### **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 creasing or impacting container side walls.

HMIS HAZARD RATINGS: HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: X (See precautions, section 7.)

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN×
WATER	NONE	NONE	NONE	NONE	
DIDECYL DIMETHYL AMMONIUM CHLORIDE		NONE	NONE	NONE	
QUATERNARY AMMONIUM COMPOUNDS,					
ALKYLBENZYLDIMETHYL, CHLORIDES	NONE	NONE	NONE	NONE	
OCTYLDIMETHYLAMINE OXIDE	NONE	NONE	NONE	NONE	
ETHYLENEDIAMINETETRAACETIC ACID		NONE	NONE	NONE	
ETHYL ALCOHOL	1000	PPM	TWA	ACGIH	
ETHYL ALCOHOL	1000	PPM	TWA	OSHA	
SODIUM HYDROXIDE	2	mg/m3	CEIL	ACGIH	
SODIUM HYDROXIDE	- 2	mg/m3	CEIL	OSHA	
SODIUM HYDROXIDE		mg/m3	TWA	CMRG	
	15 MI	NUTES TWA			
HYDROGEN PEROXIDE	1	PPM	TWA	ACGIH	

## **EXPOSURE LIMITS**

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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7. PRECAUTIONARY INFORMATION (continued)

EXPOSURE LIMITS

INGREDIENTS VALUE UNIT SKIN\* HYDROGEN PEROXIDE ..... **OSHA** 3 PPM

\* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne 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
- CMRG: Chemical Manufacture Recommended Guidelines NONE: None Established

8. 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:

Severe Skin Irritation: signs/symptoms can include redness, swelling, itching, dryness, cracking, blistering, and pain.

May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

### 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, giddiness 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.

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8. HEALTH HAZARD DATA (continued)

## 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.

CANCER :

Note: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

OTHER HEALTH HAZARD INFORMATION:

Note: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

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 OHSA, IARC, OR NTP are described in the Health Hazard Data section of this data sheet in accord with the OHSA Hazard Communications Standard, 29 CFR 1910.1200

# SECTION CHANGE DATES

PRECAUT. INFO. SECTION CHANGED SINCE OCTOBER 17, 2000 ISSUE

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