

# **Material Safety Data Sheet**

Copyright, 2005, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

### SIGNICAL PRODUCTION DE TONDA

PRODUCT NAME: 3M(TM) QUAT DISINFECTANT CLEANER CONCENTRATE (Product No. 5, Twist 'n

Fill(TM) System)

**MANUFACTURER: 3M** 

**DIVISION:** Commercial Care Division

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 04/27/2005 **Supercedes Date:** 10/24/2002

**Document Group:** 17-9553-3

**Product Use:** 

Specific Use: Disinfectant

# SECTION 22 INCREDITION

<u>Ingredient</u>		C.A.S. No.	% by Wt
WATER		7732-18-5	60 - 90
BENZYL-C12-16-ALKYL DIMETHYL AMMONIUM CHI	ORIDES	68424-85-1	8.68
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE		32426-11-2	6.51
ETHOXYLATED C12-C15 ALCOHOLS		68131-39-5	5 - 10
ETHYL ALCOHOL		64-17-5	1 - 5
DIDECYL DIMETHYL AMMONIUM CHLORIDE		7173-51-5	3.91
EDTA TETRASODIUM SALT		64-02-8	1 - 5
DIOCTYL DIMETHYL AMMONIUM CHLORIDE		5538-94-3	2.6
SODIUM METASILICATE		6834-92-0	1 - 5

# 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

Odor, Color, Grade: Clear; green color; pleasant fragrance.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: Combustible liquid and vapor. May cause chemical eye burns. May cause chemical skin burns. May be fatal if ingested. May cause chemical gastrointestinal burns. Contains a chemical or chemicals which can cause cancer. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### **Skin Contact:**

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May be fatal if swallowed.

May be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Carcinogenicity:

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.

<u>Ingredient</u>	C.A.S. No.	Class Description	Regulation
ETHYL ALCOHOL	64-17-5	Group 1	International Agency for Research on Cancer

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

A 3M Product Environmental Data Sheet (PED) is available.

A conservative assessment of this product indicates that its use and proper disposal are likely to present a low environmental risk. Potential use and misuse are unlikely to cause components to enter the environment in quantities or by routes that could cause adverse environmental impacts.

### #SIX 6 CHOOLES CHIRLS IN VALUE AND INVOLUTION

#### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 15 minutes. Get immediate medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

#### 4.2 NOTE TO PHYSICIANS

Probable mucosal damage may contraindicate the use of gastric lavage.

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

# SHELLON SERINGFICH HING THEAK

#### 5.1 FLAMMABLE PROPERTIES

Flash Point

Approximately 133 °F [Test Method: Tagliabue Closed

Cupl

**OSHA Flammability Classification:** 

Class II Combustible Liquid

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

#### 5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Unusual Fire and Explosion Hazards: Combustible liquid and vapor.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition

3M MATERIAL S.	AFETY DATA SHEET	3M(TM)	QUAT	DISI	NFECTA	NT CLEANE	R CONCEN'	<b>FRATE</b>	(Product N	o. 5, Twist 'n
Fill(TM) System)	04/27/2005				1 1					

inform	ation

# SECTION 6 A COLDENIAL RELEASE NUMBER

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Avoid contact with incompatible materials listed in the Reactivity Data Section. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with water. Collect the resulting residue containing solution. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

## ESECTION AT INVOITING AND SECRET

#### 7.1 HANDLING

Keep out of the reach of children. This product is not intended to be used without prior dilution as specified on the product label. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Avoid contact with oxidizing agents. Avoid creasing or impacting side walls.

#### 7.2 STORAGE

Store away from areas where product may come into contact with food or pharmaceuticals. Keep container in well-ventilated area. Store away from heat. Store out of direct sunlight. Store away from oxidizing agents.

### STOTIONS IN POSTRIBLEONISTO

#### 8.1 ENGINEERING CONTROLS

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

## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eve/Face Protection

Avoid eye contact. 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.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, the following eye protection is recommended: Indirect Vented Goggles and Full Face Shield.

#### 8.2.2 Skin Protection

Avoid skin contact. 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.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material is recommended: Butyl Rubber, Neoprene, Nitrile Rubber. The following protective clothing material(s) are recommended: Apron - Neoprene.

#### **8.2.3 Respiratory Protection**

Avoid breathing of vapors, mists or spray. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, respiratory protection is not required.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Fullface air-purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

#### 8.3 EXPOSURE GUIDELINES

Ingredient	<b>Authority</b>	<u>Type</u>	<u>Limit</u> <u>Additional Information</u>
ETHYL ALCOHOL	ACGIH	TWA	1000 ppm Table A4
ETHYL ALCOHOL	OSHA	TWA	1000 ppm Table Z-1

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# Sieguendadia (garandadia

Specific Physical Form: Liquid

Odor, Color, Grade: Clear; green color; pleasant fragrance.

General Physical Form: Liqu

Flash Point Approximately 133 °F [Test Method: Tagliabue Closed Cup]

Boiling point Approximately 212 °F

Density 1.0 [Ref Std: WATER=1]

Vapor Pressure <=27 psia [@ 131 °F]

Specific Gravity Approximately 1 [Ref Std: WATER=1]

pH Approximately 12.6

Solubility in Water Complete

Volatile Organic Compounds 7 % - 13 % [Test Method: calculated per CARB title 2]

VOC Less H2O & Exempt Solvents Viscosity

118 g/l - 219 g/l [Test Method: calculated per CARB title 2] Approximately 100 centipoise

# STANDING OF THE PARTY OF THE PA

Stability: Stable.

Materials and Conditions to Avoid: Strong acids

Hazardous Polymerization: Hazardous polymerization will not occur.

### **Hazardous Decomposition or By-Products**

**Substance** 

Carbon monoxide Carbon dioxide Hydrogen Chloride Oxides of Nitrogen

#### Condition

During Combustion
During Combustion
During Combustion
During Combustion

# SECTION 11: TOXICOLOGICAL INVERVALED

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# SECTION IS ECOLOGICALINEOUS

#### **ECOTOXICOLOGICAL INFORMATION**

A 3M Product Environmental Data Sheet (PED) is available.

#### CHEMICAL FATE INFORMATION

A 3M Product Environmental Data Sheet (PED) is available.

# SECRETOR IS: DISPOSATE CONST

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D002 (Corrosive)

Since regulations vary, consult applicable regulations or authorities before disposal.

# SECTION WEREAUSPORT INFORMATIO

**ID Number** 70-0711-2639-8 70-0711-2641-4

**UPC** 00-48011-34719-6 00-48011-34721-9

**ID Number** 70-0711-2640-6 70-0711-2642-2

**UPC** 00-48011-34720-2 00-48011-34722-6

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# SKERONEST RECHLARONG METORA

#### US FEDERAL REGULATIONS

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

**FIFRA** 

Status Registered **Registration Number** 

6836-78-10350

### **STATE REGULATIONS**

# **CHEMICAL INVENTORIES**

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

The components of this product are listed on the Australian Inventory of Chemical Substances.

The components of this product are listed on Japan's Chemical Substance Control Law List (also known as the Existing and New Chemical Substances List.)

All the components of this product are listed on China's Inventory of Chemical Substances.

The components of this product are in compliance with notification requirements in the Philippines.

The components of this product are listed on the Canadian Domestic Substances List.

#### INTERNATIONAL REGULATIONS

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# SECTION 16: OTHER INKORYALIGN

#### **NFPA Hazard Classification**

Health: 3 Flammability: 2 Reactivity: 0 Special Hazards: None

Corrosive: Yes

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### **HMIS Hazard Classification**

Health: 3 Flammability: 2 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

#### **Revision Changes:**

Section 16: NFPA hazard classification heading was modified.

Section 16: HMIS hazard classification heading was modified.

Section 3: Carcinogenicity heading was modified.

Section 3: Potential environmental effects comment was modified.

Section 3: Potential environmental effects heading was modified.

Section 4: Note to physicians heading was modified.

Section 3: Other potential health effects heading was modified.

Copyright was modified.

Section 8: Exposure guidelines data source legend was modified.

Section 3: Immediate ingestion hazard(s) was modified.

Section 3: Potential effects from inhalation information was modified.

Section 3: Potential effects from ingestion information was modified.

Section 5: Fire fighting procedures information was modified.

Section 6: Release measures information was modified.

Section 7: Handling information was modified.

Section 7: Storage information was modified.

Section 8: Engineering controls information was modified.

Section 8: Eye/face protection phrase was modified.

Section 8: Skin protection phrase was modified.

Section 8: Respiratory protection information was modified.

Section 13: Waste disposal method information was modified.

Section 15: 311/312 hazard categories heading was modified.

Section 4: First aid for inhalation - termination of exposure - was modified.

Section 4: First aid for inhalation - medical assistance - was modified.

Section 4: First aid for ingestion (swallowing) - decontamination - was modified.

Section 10: Hazardous polymerization heading was modified.

Section 3: Carcinogenicity phrase was modified.

Section 2: Ingredient table was modified.

Section 3: Other health effects information was modified.

Section 15: FIFRA heading was modified.

Section 16: HMIS explanation was modified.

Section 16: NFPA explanation was modified.

Section 15: 311/312 Delayed Hazard score was modified.

Section 15: Inventories information was modified.

Section 12: Ecotoxicological information heading was modified.

Section 12: Chemical fate information heading was modified.

Section 5: Flash point information was modified.

Section 9: Property description for optional properties was modified.

Section 16: NFPA hazard classification for special hazards was modified.

Section 9: Flash point information was modified.

Section 8: Eye/face protection comment was added.

Section 8: Skin protection comment was added.

Section 8: Respiratory protection comment was added.

Section 3: Potential environmental effects information was added.

Section 3: Immediate other hazard(s) was added.

Section 2: Ingredient phrase was added.

Section 3: Other health effects information (reproductive hazards) was added.

Section 16: Reason for reissue heading was added.

Section 16: Reason for reissue phrase was added.

Section 12: Ecotoxicological phrase was added.

Section 12: Chemical Fate phrase was added.

Section 3: Carcinogenicity comment was deleted.

Section 13: Waste disposal method comment was deleted.

Section 8: Eye/face protection information was deleted.

Section 8: Skin protection - recommended gloves information was deleted.

Section 8: Eye/face protection text was deleted.

Section 8: Skin protection - recommended gloves text was deleted.

Section 9: Vapor density value was deleted.

Section 5: Flammable limits (UE) information was deleted.

Section 5: Flammable limits (LEL) information was deleted.

Section 5: Autoignition temperature information was deleted.

Section 9: Melting point information was deleted.

Section 8: Skin protection - protective clothing text was deleted.

Section 9: Flammable limits (LEL) information was deleted.

Section 9: Flammable limits (UEL) information was deleted.

Section 9: Autoignition temperature information was deleted.

Section 8: Eye/face protection information - punctuation - was deleted.

Section 8: Skin protection - recommended gloves - punctuation was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

3M MSDSs are available at www.3M.com