



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Quat Disinfectant Cleaner Concentrate (Product No. 5, 3M(TM) Chemical Management Systems)

#### Product Identification Numbers

| ID Number      | UPC              | ID Number      | UPC              |
|----------------|------------------|----------------|------------------|
| 61-0000-6327-3 |                  | 61-0000-6328-1 |                  |
| 61-0000-6368-7 |                  | 61-0000-6369-5 |                  |
| 61-0000-6421-4 |                  | 70-0711-2639-8 | 00-48011-34719-6 |
| 70-0711-2640-6 | 00-48011-34720-2 | 70-0711-2641-4 | 00-48011-34721-9 |
| 70-0711-2642-2 | 00-48011-34722-6 | 70-0716-5990-1 |                  |
| 70-0716-6111-3 |                  |                |                  |

7010316038, 7000052378, 7010383380, 7000002181, 7010299240, 7010364140, 7010365473, 7010328509, 7010386101, 7010328521, 7100188170

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Disinfectant, EPA-registered, quaternary disinfectant cleaner for use in hospitals.

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Commercial Solutions Division           |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Corrosive to metal: Category 1.  
 Flammable Liquid: Category 3.  
 Acute Toxicity (oral): Category 4.

Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 1B.  
Reproductive Toxicity: Category 2.  
Specific Target Organ Toxicity (repeated exposure): Category 1.

## 2.2. Label elements

### Signal word

Danger

### Symbols

Flame | Corrosion | Exclamation mark | Health Hazard |

### Pictograms



### Hazard Statements

May be corrosive to metals.  
Flammable liquid and vapor.

Harmful if swallowed.  
Causes severe skin burns and eye damage.  
Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure:  
respiratory system |

### Precautionary Statements

#### Prevention:

Keep container tightly closed.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Keep only in original container.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves, protective clothing, and eye/face protection.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.

#### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
Wash contaminated clothing before reuse.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Absorb spillage to prevent material damage.

**Storage:**

Keep cool.

Store in a corrosive resistant container with a resistant inner liner.

Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**2.3. Hazards not otherwise classified**

May cause chemical gastrointestinal burns.

3% of the mixture consists of ingredients of unknown acute dermal toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient   | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| WATER  | 7732-18-5     | 40 - 60 Trade Secret * |
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | 68424-95-3    | 10 - 25 Trade Secret * |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | 68424-85-1    | 10 - 20 Trade Secret * |
| Quaternium-24  | 32426-11-2    | 5 - 15 Trade Secret *  |
| C12-15 Alcohols Ethoxylated                                      | 68131-39-5    | 1 - 10 Trade Secret *  |
| Didecyldimonium Chloride   | 7173-51-5     | 1 - 10 Trade Secret *  |
| Dimethyldioctylammonium Chloride                                 | 5538-94-3     | 1 - 10 Trade Secret *  |
| Ethanol  | 64-17-5       | 1 - 10 Trade Secret *  |
| Tetrasodium EDTA   | 64-02-8       | 1 - 10 Trade Secret *  |
| SODIUM METASILICATE  | 6834-92-0     | 1 - 5 Trade Secret *   |
| Fragrance  | Trade Secret* | < 1 Trade Secret *     |
| Pine Oil   | 8002-09-3     | < 0.5 Trade Secret *   |
| Acid Green 25  | 4403-90-1     | < 0.01 Trade Secret *  |
| Acid Violet 43   | 4430-18-6     | < 0.01 Trade Secret *  |
| Acid Yellow 73 Sodium Salt                                       | 518-47-8      | < 0.01 Trade Secret *  |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**Eye Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable.

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. 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. Clean up residue with water. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial/occupational use only. Not for consumer sale or use. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Do not handle until all safety precautions have

been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard. Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

### 7.2. Conditions for safe storage including any incompatibilities

Keep cool. Protect from sunlight. Keep container tightly closed. Store away from heat. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. The following protection(s) are recommended if the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

##### Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary.

If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended:

Apron - polymer laminate

### Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

Organic vapor cartridges may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state

Liquid

Color

Opalescent Green

Specific Physical Form:

Liquid

Odor

Pleasant Odor

Odor threshold

*No Data Available*

pH

12 - 13.5 Units not avail. or not appl.

Melting point

*No Data Available*

Boiling Point

> 212 °F

Flash Point

124.99 °F [*Test Method:* Tagliabue Closed Cup] [*Details:* Does not sustain combustion according to ASTM 4206]

Evaporation rate

*No Data Available*

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

*No Data Available*

Flammable Limits(UEL)

*No Data Available*

Vapor Pressure

*No Data Available*

Vapor Density

*No Data Available*

Density

1.001 - 1.009 g/ml

Specific Gravity

1.001 - 1.009 [*Ref Std:* WATER=1]

Solubility in Water

Complete

Solubility- non-water

*No Data Available*

Partition coefficient: n-octanol/ water

*No Data Available*

Autoignition temperature

*No Data Available*

Decomposition temperature

*No Data Available*

Viscosity

17.3 Saybolt Universal Second - 22.5 Saybolt Universal Second

Molecular weight

*No Data Available*

Volatile Organic Compounds

3 - 7 % weight [*Test Method:* calculated per CARB title 2]

Percent volatile

< 70 % weight

VOC Less H<sub>2</sub>O & Exempt Solvents

100 - 140 g/l [*Test Method:* calculated per CARB title 2]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Not determined

**10.5. Incompatible materials**

Strong acids

**10.6. Hazardous decomposition products**

| <u>Substance</u>   | <u>Condition</u> |
|--------------------|------------------|
| Carbon monoxide    | Not Specified    |
| Carbon dioxide     | Not Specified    |
| Oxides of Nitrogen | Not Specified    |

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

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

May cause additional health effects (see below).

**Skin Contact:**

May be harmful in contact with skin.

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

**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.

**Ingestion:**

Harmful if swallowed. 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 cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Reproductive/Developmental Toxicity:**

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

**Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name   | Route                          | Species                | Value   |
|--|--------------------------------|------------------------|---|
| Overall product  | Dermal                         |                        | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Overall product  | Ingestion                      |                        | No data available; calculated ATE >300 - =2,000 mg/kg   |
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | Dermal                         | similar compounds      | LD50 3,342 mg/kg  |
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | Ingestion                      | similar compounds      | LD50 238 mg/kg  |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Dermal                         | Rabbit                 | LD50 3,413 mg/kg  |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 0.25 mg/l  |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Ingestion                      | Rat                    | LD50 398 mg/kg  |
| Quaternium-24  | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                      |
| Quaternium-24  | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| Didecyldimonium Chloride   | Dermal                         | Rabbit                 | LD50 3,328 mg/kg  |
| Didecyldimonium Chloride   | Ingestion                      | Rat                    | LD50 264 mg/kg  |
| C12-15 Alcohols Ethoxylated                                      | Ingestion                      | similar compounds      | LD50 > 2,000 mg/kg                                      |
| C12-15 Alcohols Ethoxylated                                      | Dermal                         | similar health hazards | LD50 estimated to be > 5,000 mg/kg                      |
| Ethanol  | Dermal                         | Rabbit                 | LD50 > 15,800 mg/kg                                     |
| Ethanol  | Inhalation-Vapor (4 hours)     | Rat                    | LC50 124.7 mg/l   |
| Ethanol  | Ingestion                      | Rat                    | LD50 17,800 mg/kg                                       |
| Dimethyldioctylammonium Chloride                                 | Ingestion                      | Mouse                  | LD50 > 50 mg/kg   |
| Dimethyldioctylammonium Chloride                                 | Dermal                         | Rabbit                 | LD50 170 mg/kg  |
| Tetrasodium EDTA   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 1.5 mg/l   |
| Tetrasodium EDTA   | Ingestion                      | Rat                    | LD50 1,658 mg/kg  |
| SODIUM METASILICATE  | Dermal                         | Rabbit                 | LD50 > 4,640 mg/kg                                      |
| SODIUM METASILICATE  | Ingestion                      | Rat                    | LD50 500 mg/kg  |
| Pine Oil   | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| Pine Oil   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 4.76 mg/l  |



|           |           |                        |                                    |
|-----------|-----------|------------------------|------------------------------------|
| Pine Oil  | Ingestion | Rat                    | LD50 > 2,000 mg/kg                 |
| Fragrance | Ingestion | Rat                    | LD50 5,075 mg/kg                   |
| Fragrance | Dermal    | similar health hazards | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name   | Species           | Value                     |
|--|-------------------|---------------------------|
| Overall product  | In vitro data     | Corrosive                 |
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | similar compounds | Corrosive                 |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Rabbit            | Corrosive                 |
| Didecyldimonium Chloride   | Rabbit            | Corrosive                 |
| C12-15 Alcohols Ethoxylated                                      | Rabbit            | Mild irritant             |
| Ethanol  | Rabbit            | No significant irritation |
| Dimethyldioctylammonium Chloride                                 | Rabbit            | Corrosive                 |
| Tetrasodium EDTA   | Rabbit            | No significant irritation |
| SODIUM METASILICATE  | Rabbit            | Corrosive                 |
| Pine Oil   | Rabbit            | Irritant                  |
| Fragrance  | Rabbit            | Mild irritant             |

### Serious Eye Damage/Irritation

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| Overall product  | similar health hazards | Corrosive                 |
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | similar compounds      | Corrosive                 |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Rabbit                 | Corrosive                 |
| Didecyldimonium Chloride   | Rabbit                 | Corrosive                 |
| C12-15 Alcohols Ethoxylated                                      | similar compounds      | No significant irritation |
| Ethanol  | Rabbit                 | Severe irritant           |
| Dimethyldioctylammonium Chloride                                 | Rabbit                 | Corrosive                 |
| Tetrasodium EDTA   | Rabbit                 | Corrosive                 |
| SODIUM METASILICATE  | In vitro data          | Corrosive                 |
| Pine Oil   | Rabbit                 | Moderate irritant         |
| Fragrance  | In vitro data          | No significant irritation |

### Skin Sensitization

| Name   | Species           | Value          |
|--|-------------------|----------------|
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | similar compounds | Not classified |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Guinea pig        | Not classified |
| Didecyldimonium Chloride   | Guinea pig        | Not classified |
| C12-15 Alcohols Ethoxylated                                      | similar compounds | Not classified |
| Ethanol  | Human             | Not classified |
| Dimethyldioctylammonium Chloride                                 | similar compounds | Not classified |

|                     |                  |                |
|---------------------|------------------|----------------|
| Tetrasodium EDTA    | Human and animal | Not classified |
| SODIUM METASILICATE | Mouse            | Not classified |
| Pine Oil            | Human and animal | Not classified |
| Fragrance           | Mouse            | Not classified |

### Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

### Germ Cell Mutagenicity

| Name   | Route    | Value  |
|--|----------|--|
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | In Vitro | Not mutagenic  |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | In Vitro | Not mutagenic  |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | In vivo  | Not mutagenic  |
| Didecyldimonium Chloride   | In Vitro | Not mutagenic  |
| Didecyldimonium Chloride   | In vivo  | Not mutagenic  |
| C12-15 Alcohols Ethoxylated                                      | In Vitro | Not mutagenic  |
| Ethanol  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethanol  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Dimethyldioctylammonium Chloride                                 | In Vitro | Not mutagenic  |
| Tetrasodium EDTA   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Tetrasodium EDTA   | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| SODIUM METASILICATE  | In Vitro | Not mutagenic  |
| SODIUM METASILICATE  | In vivo  | Not mutagenic  |
| Pine Oil   | In Vitro | Not mutagenic  |
| Fragrance  | In Vitro | Not mutagenic  |

### Carcinogenicity

| Name  | Route     | Species                 | Value  |
|---|-----------|-------------------------|--|
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion | Rat                     | Not carcinogenic   |
| Didecyldimonium Chloride                      | Ingestion | Rat                     | Not carcinogenic   |
| Ethanol                                       | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Tetrasodium EDTA                              | Ingestion | Multiple animal species | Not carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name  | Route     | Value                                  | Species | Test Result          | Exposure Duration |
|---|-----------|--|---------|----------------------|-------------------|
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion | Not classified for female reproduction | Rat     | NOAEL 48 mg/kg/day   | 2 generation      |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 30.5 mg/kg/day | 2 generation      |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion | Not classified for development         | Rat     | NOAEL 48 mg/kg/day   | 2 generation      |
| Didecyldimonium Chloride                      | Ingestion | Not classified for female reproduction | Rat     | NOAEL 137 mg/kg/day  | 2 generation      |
| Didecyldimonium Chloride                      | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 109 mg/kg/day  | 2 generation      |
| Didecyldimonium Chloride                      | Ingestion | Not classified for development         | Rabbit  | NOAEL 12 mg/kg/day   | during gestation  |

|                                  |            |  |       |                       |                               |
|----------------------------------|------------|--|-------|-----------------------|-------------------------------|
| C12-15 Alcohols Ethoxylated      | Ingestion  | Not classified for female reproduction | Rat   | NOAEL 1,000 mg/kg/day | premat ing into lactation     |
| C12-15 Alcohols Ethoxylated      | Ingestion  | Not classified for male reproduction   | Rat   | NOAEL 1,000 mg/kg/day | 29 days                       |
| C12-15 Alcohols Ethoxylated      | Ingestion  | Not classified for development         | Rat   | NOAEL 300 mg/kg/day   | premat ing into lactation     |
| Ethanol                          | Inhalation | Not classified for development         | Rat   | NOAEL 38 mg/l         | during gestation              |
| Ethanol                          | Ingestion  | Not classified for development         | Rat   | NOAEL 5,200 mg/kg/day | premat ing & during gestation |
| Dimethyldioctylammonium Chloride | Ingestion  | Not classified for development         | Rat   | NOAEL 50 mg/kg/day    | during organogenesis          |
| Tetrasodium EDTA                 | Ingestion  | Not classified for female reproduction | Rat   | NOAEL 250 mg/kg/day   | 4 generation                  |
| Tetrasodium EDTA                 | Ingestion  | Not classified for male reproduction   | Rat   | NOAEL 250 mg/kg/day   | 4 generation                  |
| Tetrasodium EDTA                 | Ingestion  | Not classified for development         | Rat   | LOAEL 1,000 mg/kg/day | during gestation              |
| SODIUM METASILICATE              | Ingestion  | Not classified for development         | Mouse | NOAEL 200 mg/kg/day   | during gestation              |
| Pine Oil                         | Ingestion  | Not classified for development         | Rat   | NOAEL 600 mg/kg/day   | during gestation              |
| Pine Oil                         | Ingestion  | Not classified for female reproduction | Rat   | NOAEL 250 mg/kg/day   | premat ing into lactation     |
| Pine Oil                         | Ingestion  | Toxic to male reproduction             | Rat   | NOAEL 250 mg/kg/day   | 5 weeks                       |
| Fragrance                        | Ingestion  | Not classified for development         | Rat   | NOAEL 85 mg/kg/day    | premat ing into lactation     |
| Fragrance                        | Ingestion  | Toxic to female reproduction           | Rat   | NOAEL 250 mg/kg/day   | premat ing into lactation     |
| Fragrance                        | Ingestion  | Toxic to male reproduction             | Rat   | LOAEL 85 mg/kg/day    | 90 days                       |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name   | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| Quaternary Ammonium Compounds, DI-C8-10-Alkyldimethyl, Chlorides | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |                   |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride                    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not Available |                   |
| Didecylidimonium Chloride  | Inhalation | respiratory irritation            | May cause respiratory irritation   | similar health hazards  | NOAEL Not available |                   |
| C12-15 Alcohols Ethoxylated                                      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not Available |                   |
| Ethanol  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |
| Ethanol  | Inhalation | central nervous system depression | Not classified   | Human and animal        | NOAEL not available |                   |
| Ethanol  | Ingestion  | central nervous system depression | Not classified   | Multiple animal species | NOAEL not available |                   |
| Ethanol  | Ingestion  | kidney and/or bladder             | Not classified   | Dog                     | NOAEL 3,000 mg/kg   |                   |
| Dimethyldioctylammonium Chloride                                 | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not Available |                   |

|                     |            |                        |  |                         |                     |  |
|---------------------|------------|------------------------|--|-------------------------|---------------------|--|
| Tetrasodium EDTA    | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |  |
| SODIUM METASILICATE | Inhalation | respiratory irritation | May cause respiratory irritation   | official classification | NOAEL Not available |  |
| Pine Oil            | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL not available |  |
| Fragrance           | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards  | NOAEL Not available |  |

### Specific Target Organ Toxicity - repeated exposure

| Name  | Route      | Target Organ(s)  | Value  | Species | Test Result           | Exposure Duration |
|---|------------|--|--|---------|-----------------------|-------------------|
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion  | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system                  | Not classified   | Rat     | NOAEL 50 mg/kg/day    | 95 days           |
| Didecylidimonium Chloride                     | Ingestion  | gastrointestinal tract   hematopoietic system   immune system   heart   skin   endocrine system   bone, teeth, nails, and/or hair   liver   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified   | Rat     | NOAEL 175 mg/kg/day   | 13 weeks          |
| C12-15 Alcohols Ethoxylated                   | Ingestion  | endocrine system   gastrointestinal tract   liver   kidney and/or bladder   hematopoietic system   nervous system   eyes   | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks          |
| Ethanol                                       | Inhalation | liver  | Some positive data exist, but the data are not sufficient for classification | Rabbit  | LOAEL 124 mg/l        | 365 days          |
| Ethanol                                       | Inhalation | hematopoietic system   immune system   | Not classified   | Rat     | NOAEL 25 mg/l         | 14 days           |
| Ethanol                                       | Ingestion  | liver  | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 8,000 mg/kg/day | 4 months          |
| Ethanol                                       | Ingestion  | kidney and/or bladder  | Not classified   | Dog     | NOAEL 3,000 mg/kg/day | 7 days            |
| Tetrasodium EDTA                              | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure               | Rat     | NOAEL 0.003 mg/l      | 13 weeks          |
| Tetrasodium EDTA                              | Inhalation | liver   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   | Not classified   | Rat     | NOAEL 0.015 mg/l      | 13 weeks          |

|                     |            |   |  |     |                       |          |
|---------------------|------------|---|--|-----|-----------------------|----------|
|                     |            | hematopoietic system   immune system   muscles   nervous system   eyes   kidney and/or bladder   vascular system  |  |     |                       |          |
| Tetrasodium EDTA    | Ingestion  | hematopoietic system   liver  | Not classified   | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| Tetrasodium EDTA    | Ingestion  | heart   gastrointestinal tract   muscles   kidney and/or bladder   respiratory system   | Not classified   | Rat | NOAEL 5,000 mg/kg/day | 13 weeks |
| SODIUM METASILICATE | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Dog | LOAEL 2,400 mg/kg/day | 4 weeks  |
| SODIUM METASILICATE | Ingestion  | endocrine system   blood  | Not classified   | Rat | NOAEL 804 mg/kg/day   | 3 months |
| SODIUM METASILICATE | Ingestion  | heart   liver   | Not classified   | Rat | NOAEL 1,259 mg/kg/day | 8 weeks  |
| Pine Oil            | Inhalation | hematopoietic system   eyes   respiratory system  | Not classified   | Rat | NOAEL 2.23 mg/l       | 13 weeks |
| Pine Oil            | Ingestion  | liver   kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system | Not classified   | Rat | NOAEL 750 mg/kg/day   | 5 weeks  |
| Fragrance           | Ingestion  | liver   immune system   kidney and/or bladder   | Not classified   | Rat | NOAEL 750 mg/kg/day   | 90 days  |
| Fragrance           | Ingestion  | heart   bone, teeth, nails, and/or hair   hematopoietic system   muscles  | Not classified   | Rat | NOAEL 400 mg/kg/day   | 20 weeks |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations****EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Corrosive to metal

Flammable (gases, aerosols, liquids, or solids)

**Health Hazards**

Acute toxicity

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

**FIFRA****Status**

Registered

**Registration Number**

6836-78-10350

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns.

Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber

or chemical resistant) gloves. Harmful if swallowed and/or if absorbed through the skin. Wash thoroughly with soap and water after handling and

before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present, after the first 5 minutes, then continue rinsing eye. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

STORAGE AND DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children. Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.

## 15.2. State Regulations

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

This product complies with the New Zealand Hazardous Substances and New Organisms Act (1996).

## 15.4. International Regulations

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

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 3 **Flammability:** 2 **Instability:** 0 **Special Hazards:** None

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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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