



## Safety Data Sheet

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

#### 1.1. Product identifier

3M™ MBS Disinfectant Cleaner Fresh Scent Concentrate Ready-To-Use (Diluted)

#### Product Identification Numbers

LK-T100-2186-7, 61-0000-6437-0

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

##### Recommended use

Disinfectant

#### 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

#### 2.1. Hazard classification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

##### Signal word

Not applicable.

##### Symbols

Not applicable.

##### Pictograms

Not applicable.

**SECTION 3: Composition/information on ingredients**

| <b>Ingredient</b>   | <b>C.A.S. No.</b> | <b>% by Wt</b>          |
|---|-------------------|-------------------------|
| Water   | 7732-18-5         | 90 - 100 Trade Secret * |
| DIOCTYL DIMETHYL AMMONIUM CHLORIDE  | 5538-94-3         | < 0.1 Trade Secret *    |
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES                            | 68391-01-5        | < 0.1 Trade Secret *    |
| ALCOHOLS, C6-12, ETHOXYLATED  | 68439-45-2        | < 0.1 Trade Secret *    |
| Ethyl Alcohol   | 64-17-5           | < 0.01 Trade Secret *   |
| TETRASODIUM ETHYLENEDIAMINETETRAACETATE                                   | 64-02-8           | < 0.01 Trade Secret *   |
| 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt, hydrate (1:3:2) | 6132-04-3         | < 0.01 Trade Secret *   |
| Fragrance   | Trade Secret*     | < 0.0001 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:**

No need for first aid is anticipated.

**Skin Contact:**

No need for first aid is anticipated.

**Eye Contact:**

No need for first aid is anticipated.

**If Swallowed:**

No need for first aid is anticipated.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable.

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

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

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

None inherent in this product.

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

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate the area with fresh air. 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. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. 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**

NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a chemical dispensing system. Keep out of reach of children. Avoid release to the environment.

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

No special storage requirements.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient    | C.A.S. No. | Agency | Limit type                            | Additional Comments          |
|---------------|------------|--------|---------------------------------------|------------------------------|
| Ethyl Alcohol | 64-17-5    | ACGIH  | STEL:1000 ppm                         | A3: Confirmed animal carcin. |
| Ethyl Alcohol | 64-17-5    | OSHA   | TWA:1900 mg/m <sup>3</sup> (1000 ppm) |                              |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

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.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

**Skin/hand protection**

Under normal use conditions, skin exposure is not expected to be significant enough to require skin protection.

**Respiratory protection**

None required.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Liquid  |
| <b>Odor, Color, Grade:</b>                     | Clear, green colored liquid, fresh lavender scent |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                          |
| <b>pH</b>                                      | 8 - 10  |
| <b>Melting point</b>                           | <i>Not Applicable</i>                             |
| <b>Boiling Point</b>                           | 212 °F  |
| <b>Flash Point</b>                             | <i>No Data Available</i>                          |
| <b>Flash Point</b>                             | No flash point                                    |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                          |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                          |
| <b>Flammability (solid, gas)</b>               | Not Applicable                                    |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>                             |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>                             |
| <b>Vapor Pressure</b>                          | 17.5 mmHg [@ 20 °C]                               |
| <b>Vapor Density</b>                           | <i>No Data Available</i>                          |
| <b>Density</b>                                 | 1 g/ml  |
| <b>Specific Gravity</b>                        | 1.004 [ <i>Ref Std: WATER=1</i> ]                 |
| <b>Solubility In Water</b>                     | 100 % [@ 100 °C]                                  |
| <b>Solubility in Water</b>                     | Complete  |
| <b>Solubility- non-water</b>                   | 100 % [@ 100 °C]                                  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                          |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                          |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                          |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                          |
| <b>Viscosity</b>                               | <i>No Data Available</i>                          |
| <b>Volatile Organic Compounds</b>              | <= 0.1  |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products****Substance****Condition**

None known.

**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:**

No known health effects.

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion:**

No known health effects.

**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                                | Ingestion |               | No data available; calculated ATE >5,000 mg/kg |
| DIOCTYL DIMETHYL AMMONIUM CHLORIDE             | Ingestion | Mouse         | LD50 > 50 mg/kg                                |
| DIOCTYL DIMETHYL AMMONIUM CHLORIDE             | Dermal    | Rabbit        | LD50 259 mg/kg                                 |
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES | Dermal    | Not available | LD50 > 2,000 mg/kg                             |
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES | Ingestion | Not available | LD50 500 mg/kg                                 |
| ALCOHOLS, C6-12, ETHOXYLATED                   | Dermal    | Rabbit        | LD50 1,500 mg/kg                               |
| ALCOHOLS, C6-12, ETHOXYLATED                   | Ingestion | Rat           | LD50 5,100 mg/kg                               |
| TETRASODIUM ETHYLENEDIAMINETETRAACETATE        | Ingestion | Rat           | LD50 1,658 mg/kg                               |

|               |                            |        |                                    |
|---------------|----------------------------|--------|------------------------------------|
| Ethyl Alcohol | Dermal                     | Rabbit | LD50 > 15,800 mg/kg                |
| Ethyl Alcohol | Inhalation-Vapor (4 hours) | Rat    | LC50 124.7 mg/l                    |
| Ethyl Alcohol | Ingestion                  | Rat    | LD50 17,800 mg/kg                  |
| Fragrance     | Dermal                     |        | LD50 estimated to be > 5,000 mg/kg |
| Fragrance     | Ingestion                  | Rat    | LD50 5,170 mg/kg                   |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species                | Value                     |
|--|------------------------|---------------------------|
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES | Professional judgement | Corrosive                 |
| Ethyl Alcohol                                  | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species                | Value           |
|--|------------------------|-----------------|
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES | Professional judgement | Corrosive       |
| Ethyl Alcohol                                  | Rabbit                 | Severe irritant |

**Skin Sensitization**

| Name          | Species | Value          |
|---------------|---------|----------------|
| Ethyl Alcohol | Human   | 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  |
|---------------|----------|--|
| Ethyl Alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Ethyl Alcohol | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name          | Route     | Species                 | Value  |
|---------------|-----------|-------------------------|--|
| Ethyl Alcohol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name          | Route      | Value                          | Species | Test Result           | Exposure Duration              |
|---------------|------------|--------------------------------|---------|-----------------------|--------------------------------|
| Ethyl Alcohol | Inhalation | Not classified for development | Rat     | NOAEL 38 mg/l         | during gestation               |
| Ethyl Alcohol | Ingestion  | Not classified for development | Rat     | NOAEL 5,200 mg/kg/day | prematuring & during gestation |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name   | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| BENZYL-C12-18-ALKYLDIMETHYL AMMONIUM CHLORIDES | Inhalation | respiratory irritation            | May cause respiratory irritation   |                         | NOAEL Not available |                   |
| Ethyl Alcohol                                  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | LOAEL 2.6 mg/l      | 30 minutes        |
| Ethyl Alcohol                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available     |
| Ethyl Alcohol                                  | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL not available |                   |
| Ethyl Alcohol                                  | Ingestion  | kidney and/or bladder             | Not classified   | Dog                     | NOAEL 3,000 mg/kg   |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name          | Route      | Target Organ(s)                      | Value  | Species | Test Result           | Exposure Duration |
|---------------|------------|--------------------------------------|--|---------|-----------------------|-------------------|
| Ethyl Alcohol | Inhalation | liver                                | Some positive data exist, but the data are not sufficient for classification | Rabbit  | LOAEL 124 mg/l        | 365 days          |
| Ethyl Alcohol | Inhalation | hematopoietic system   immune system | Not classified   | Rat     | NOAEL 25 mg/l         | 14 days           |
| Ethyl Alcohol | Ingestion  | liver                                | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 8,000 mg/kg/day | 4 months          |
| Ethyl Alcohol | Ingestion  | kidney and/or bladder                | Not classified   | Dog     | NOAEL 3,000 mg/kg/day | 7 days            |

**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**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste 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):** Not regulated

## 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

Contact 3M for more information.

### EPCRA 311/312 Hazard Classifications:

#### Physical Hazards

Not applicable

#### Health Hazards

Not applicable

### FIFRA

#### Status

Registered

#### Registration Number

6836-361

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.

Please see concentrate SDS for full label precautions, first aid and disposal.

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**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: 0 Flammability: 0 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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