



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Sanitizer Ready-to-Use (Product No. 16, 3M™ Chemical Management Systems)

Product Identification Numbers

| ID Number | UPC | ID Number | UPC |
|----------------|-----|-----------|-----|
| LN-DCCX-RTU1-6 | | | |

1.2. Recommended use and restrictions on use

Recommended use

Disinfectant

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: Commercial Branding and Transportation Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 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

| Ingredient | C.A.S. No. | % by Wt |
|-----------------------------------------------|------------|---------|
| Didecyltrimonium Chloride | 7173-51-5 | < 0.1 |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | 68424-85-1 | < 0.01 |
| Ethanol | 64-17-5 | < 0.005 |
| Water | 7732-18-5 | > 95 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

No need for first aid is anticipated. If symptoms develop, remove the affected person to fresh air. Get medical attention.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Do not induce vomiting. Rinse mouth. If you feel unwell, get medical attention.

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

No critical symptoms or effects. 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.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or

donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. 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 |
|------------|------------|--------|--------------------------|------------------------------|
| Ethanol | 64-17-5 | ACGIH | STEL:1000 ppm | A3: Confirmed animal carcin. |
| Ethanol | 64-17-5 | OSHA | TWA:1900 mg/m3(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

No engineering controls required.

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

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state
Color

Liquid
Colorless

Odor

Odorless

Odor threshold

No Data Available

pH

Approximately 7

Melting point

Not Applicable

Boiling Point

> 212 °F

Flash Point

No flash point

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

No Data Available

Vapor Density

No Data Available

Density

Approximately 1 g/ml [Ref Std: WATER=1]

Specific Gravity

Approximately 1 [Ref Std: WATER=1]

Solubility in Water

Complete

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

Not Applicable

Autoignition temperature

Not Applicable

Decomposition temperature

No Data Available

Viscosity

< 100 centipoise

Hazardous Air Pollutants

No Data Available

Volatile Organic Compounds

< 0.01 % weight [Test Method: calculated per CARB title 2]

Percent volatile

> 95 %

VOC Less H2O & Exempt Solvents

< 10 g/l

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**

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

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 |
| Didecylidimonium Chloride | Dermal | Rabbit | LD50 3,328 mg/kg |
| Didecylidimonium Chloride | Ingestion | Rat | LD50 264 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 |
| 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 |
|---------|-----------|-----|-------------------|

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------------------------|---------|---------------------------|
| Didecyldimonium Chloride | Rabbit | Corrosive |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Rabbit | Corrosive |
| Ethanol | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------------------------|---------|-----------------|
| Didecyldimonium Chloride | Rabbit | Corrosive |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Rabbit | Corrosive |
| Ethanol | Rabbit | Severe irritant |

Skin Sensitization

| Name | Species | Value |
|-----------------------------------------------|------------|----------------|
| Didecyldimonium Chloride | Guinea pig | Not classified |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Guinea pig | Not classified |
| Ethanol | 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 |
|-----------------------------------------------|----------|------------------------------------------------------------------------------|
| Didecyldimonium Chloride | In Vitro | Not mutagenic |
| Didecyldimonium Chloride | In vivo | Not mutagenic |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | In Vitro | Not mutagenic |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | In vivo | 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 |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------------------------------|-----------|-------------------------|------------------------------------------------------------------------------|
| Didecyldimonium Chloride | Ingestion | Rat | Not carcinogenic |
| Alkyl C12-16 Dimethylbenzyl Ammonium Chloride | Ingestion | Rat | Not carcinogenic |
| Ethanol | 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 |
|-----------------------------------------------|-----------|----------------------------------------|---------|---------------------|-------------------|
| 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 |
| 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 |
| 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 | premating & during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| Didecylidimonium Chloride | Inhalation | respiratory irritation | May cause respiratory irritation | 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 | |
| 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 | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|-----------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|---------------------|-------------------|
| 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 |
| 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 |
| 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 | Not classified | Rat | NOAEL 25 | 14 days |

| | | system immune system | | | mg/l | |
|---------|-----------|---------------------------|------------------------------------------------------------------------------|-----|-----------------------------|----------|
| 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 |

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.

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****EPCRA 311/312 Hazard Classifications:****Physical Hazards**

Not applicable

Health Hazards

Not applicable

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.

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: 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.

HMIS Hazard Classification

Health: 0 **Flammability:** 0 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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