SECTION 1: Identification

1.1. Product identifier
3M™ Bathroom Disinfectant Cleaner Ready-to-Use (Product No. 4, 3M™ Chemical Management Systems)

Product Identification Numbers
61-0000-6301-8

1.2. Recommended use and restrictions on use
Recommended use
Disinfectant. Mild acid cleaner removes soap scum and scale from bathroom surfaces including plastic, porcelain, ceramic, fiberglass, floors and fixtures. Do not use on marble surfaces.

1.3. Supplier’s details
MANUFACTURER: 3M
DIVISION: Commercial Solutions 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

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

2.3. Hazards not otherwise classified
None.

SECTION 3: Composition/information on ingredients
**Ingredient** | **C.A.S. No.** | **% by Wt**  
--- | --- | ---  
WATER | 7732-18-5 | > 95 Trade Secret *  
1-OCTYL-2-PYRROLIDINONE | 2687-94-7 | < 1 Trade Secret *  
HYDROXYACETIC ACID | 79-14-1 | < 1 Trade Secret *  
MALIC ACID | 6915-15-7 | < 1 Trade Secret *  
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES | 68424-85-1 | < 0.1  
AMINES, COCO ALKYLDIMETHYL, N-OXIDES | 61788-90-7 | < 0.1 Trade Secret *  
OCTYLDECYLDIMETHYLAMMONIUM CHLORIDE | 32426-11-2 | < 0.1  
DIDECYLDIMETHYLAMMONIUM CHLORIDE | 7173-51-5 | < 0.1  
DIOCTYL DIMETHYL AMMONIUM CHLORIDE | 5538-94-3 | < 0.1  

*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:**  
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:**  
Rinse mouth. If you feel unwell, get medical attention.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial or professional use only. 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 breathing mist/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities
Store away from strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>79-14-1</td>
<td>CMRG</td>
<td>TWA:10 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

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 mist/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
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
General Physical Form: Liquid
Specific Physical Form: Liquid
Odor, Color, Grade: Green liquid with floral fragrance.
Odor threshold: No Data Available
pH: Approximately 3
Melting point: Not Applicable
Boiling Point: > 212 °F
Flash Point: No flash point
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
Specific Gravity: Approximately 1 [Ref Std: WATER=1]
Solubility in Water: Complete
Solubility - non-water: No Data Available
Autoignition temperature: Not Applicable
Decomposition temperature: No Data Available
Viscosity: No Data Available
Volatile Organic Compounds: < 0.1 % weight [Test Method: calculated per CARB title 2] VOC Less H2O & Exempt Solvents: < 20 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 bases

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

**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:**
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**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

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE &gt; 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Inhalation-Vapor(4 hr)</td>
<td>No data available; calculated ATE &gt; 50 mg/l</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE &gt; 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>1-OCTYL-2-PYRROLIDINONE</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>1-OCTYL-2-PYRROLIDINONE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 2,050 mg/kg</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Inhalation-Dust/Mist (4 hours)</td>
<td>Rat</td>
<td>LC50 2.5 mg/l</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 2,040 mg/kg</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 3,200 mg/kg</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Dermal</td>
<td>similar compounds</td>
<td>LD50 &gt; 20,000 mg/kg</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>similar compounds</td>
<td>LC50 &gt; 1.306 mg/l</td>
</tr>
<tr>
<td>AMINES, COCO ALKYLDIMETHYL, N-OXIDES</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 645 mg/kg</td>
</tr>
<tr>
<td>BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 366 mg/kg</td>
</tr>
<tr>
<td>OCTYLDECYLDIMETHYLAMMONIUM CHLORIDE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>DIOCTYL DIMETHYLAMMONIUM CHLORIDE</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 84 mg/kg</td>
</tr>
<tr>
<td>DIOCTYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>Ingestion</td>
<td>Mouse</td>
<td>LD50 &gt; 50 mg/kg</td>
</tr>
<tr>
<td>DIOCTYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 259 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Rabbit</td>
<td>Mild irritant</td>
</tr>
<tr>
<td>AMINES, COCO ALKYLDIMETHYL, N-OXIDES</td>
<td>Mild irritant</td>
<td></td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Rabbit</td>
<td>Corrosive</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Rabbit</td>
<td>Severe irritant</td>
</tr>
<tr>
<td>AMINES, COCO ALKYLDIMETHYL, N-OXIDES</td>
<td></td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>similar</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>
### AMINES, COCO ALKYLDIMETHYL, N-OXIDES

| Compounds | Similar Compounds | Sensitization
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not sensitizing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMINES, COCO ALKYLDIMETHYL, N-OXIDES</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Some positive developmental data exist, but the data are not sufficient for classification</td>
<td></td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Not toxic to female reproduction</td>
<td></td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Not toxic to development</td>
<td></td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Some positive male reproductive data exist, but the data are not sufficient for classification</td>
<td></td>
</tr>
</tbody>
</table>

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Some positive developmental data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Not toxic to female reproduction</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Not toxic to development</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Some positive male reproductive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMINES, COCO ALKYLDIMETHYL, N-OXIDES</td>
<td>Inhalation</td>
<td>Respiratory irritation</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

#### Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Inhalation</td>
<td>Heart</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Kidney and/or Bladder</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Hematopoietic System</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Liver</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Muscles</td>
<td>All data are negative</td>
</tr>
</tbody>
</table>

### Toxicity Data Table

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROXYACETIC ACID</td>
<td>Ingestion</td>
<td>Mutagenic</td>
</tr>
<tr>
<td>MALIC ACID</td>
<td>Ingestion</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Hazard Identification

- **Germ Cell Mutagenicity**
  - HYDROXYACETIC ACID: Not mutagenic (In Vitro)
  - HYDROXYACETIC ACID: Not mutagenic (In vivo)
  - MALIC ACID: Not mutagenic (In Vitro)

- **Carcinogenicity**
  - HYDROXYACETIC ACID: Some positive developmental data exist, but the data are not sufficient for classification
  - MALIC ACID: Not toxic to female reproduction
  - MALIC ACID: Not toxic to development
  - MALIC ACID: Some positive male reproductive data exist, but the data are not sufficient for classification

- **Reproductive Toxicity**
  - HYDROXYACETIC ACID: Some positive developmental data exist, but the data are not sufficient for classification
  - MALIC ACID: Not toxic to female reproduction
  - MALIC ACID: Not toxic to development
  - MALIC ACID: Some positive male reproductive data exist, but the data are not sufficient for classification

- **Target Organ(s)**
  - AMINES, COCO ALKYLDIMETHYL, N-OXIDES: Respiratory irritation
  - HYDROXYACETIC ACID: Heart, Hematopoietic System, Liver, Immune System, Kidney and/or Bladder, Respiratory System
  - MALIC ACID: Kidney and/or Bladder
  - MALIC ACID: Hematopoietic System
  - MALIC ACID: Liver
  - MALIC ACID: Muscles, Nervous System

- **Biochemical Toxicity**
  - HYDROXYACETIC ACID: In Vitro, Not mutagenic
  - MALIC ACID: In Vitro, Not mutagenic

- **Hazard Identification**
  - Germ Cell Mutagenicity: Not mutagenic
  - Reproductive Toxicity: Some positive developmental data exist, but the data are not sufficient for classification
  - Target Organ(s): Respiratory irritation, Heart, Hematopoietic System, Liver, Immune System, Kidney and/or Bladder, Respiratory System, Kidney and/or Bladder, Hematopoietic System, Liver, Muscles, Nervous System
HYDROXYACETIC ACID

MALIC ACID

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>respiratory system</th>
<th>All data are negative</th>
<th>Dog</th>
<th>NOAEL 500 mg/kg/day</th>
<th>119 days</th>
</tr>
</thead>
</table>

**Aspiration Hazard**

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
</table>

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. 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](http://3M.com/Transportinfo) or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

**15.1. US Federal Regulations**

311/312 Hazard Categories:

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

**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 product are in compliance with the chemical notification requirements of TSCA.

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: 1  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: 1  Flammability: 0  Physical Hazard: 0  Personal Protection: X - See PPE section.

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

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Issue Date: 09/04/14  Supercedes Date: 05/17/13

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