



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Bathroom & Shower Cleaner Ready-to-Use (Product No. 51, 3M(TM) Chemical Management Systems)

#### Product Identification Numbers

LK-T100-1557-6

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

##### Recommended use

For daily cleaning of surfaces such as ceramic tile, stainless steel, fixtures, floors and more., Hard Surface Cleaner

#### 1.3. Supplier's details

<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Commercial Branding and Transportation 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

Ingredient	C.A.S. No.	% by Wt
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HYDROGEN CHLORIDE	7647-01-0	< 0.5 Trade Secret *
ETHOXYLATED C9-11 ALCOHOLS	68439-46-3	< 0.05 Trade Secret *
Benzene, ethenyl-, homopolymer	9003-53-6	< 0.01 Trade Secret *
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	68424-85-1	< 0.01 Trade Secret *
WATER	7732-18-5	> 97

\*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 signs/symptoms develop, 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. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

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

None inherent in this product.

### Hazardous Decomposition or By-Products

#### Substance

Chlorine  
Carbon monoxide  
Carbon dioxide

#### Condition

During Combustion  
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. Observe precautions from other sections.

### 6.2. Environmental precautions

Avoid release to the environment.

### 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. 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

Store away from strong bases.

## 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
HYDROGEN CHLORIDE	7647-01-0	ACGIH	CEIL:2 ppm	A4: Not class. as human carcin
HYDROGEN CHLORIDE	7647-01-0	OSHA	CEIL:7 mg/m <sup>3</sup> (5 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

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:

Safety Glasses with side shields

##### Skin/hand protection

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.

Gloves made from the following material(s) are recommended: Nitrile Rubber

#### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state

Liquid

Color

Milky White

Odor

Pungent Odor

Odor threshold

*No Data Available*

pH

$\leq 1$

Melting point

*No Data Available*

Boiling Point

$> 212$  °F

Flash Point

No flash point

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

*No Data Available*

Specific Gravity

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

*No Data Available*

Bulk density

*No Data Available*

Volatile Organic Compounds

$< 0.05$  % weight

Percent volatile

99 %

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

$< 65$  g/l

## 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

### Substance

### Condition

None known.

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.

#### **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
HYDROGEN CHLORIDE	Dermal	Rabbit	LD50 > 5,010 mg/kg
HYDROGEN CHLORIDE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 1 mg/l
HYDROGEN CHLORIDE	Ingestion	Rat	LD50 238 mg/kg
ETHOXYLATED C9-11 ALCOHOLS	Dermal	similar compounds	LD50 > 2,000 mg/kg
ETHOXYLATED C9-11 ALCOHOLS	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 1.6 mg/l
ETHOXYLATED C9-11 ALCOHOLS	Ingestion	similar compounds	LD50 3,488 mg/kg
Benzene, ethenyl-, homopolymer	Dermal	Rabbit	LD50 > 2,000 mg/kg
Benzene, ethenyl-, homopolymer	Ingestion	Rat	LD50 > 5,000 mg/kg
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM	Dermal	Rabbit	LD50 3,413 mg/kg

CHLORIDES			
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.25 mg/l
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Ingestion	Rat	LD50 398 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
HYDROGEN CHLORIDE	Human	Corrosive
ETHOXYLATED C9-11 ALCOHOLS	similar compounds	Minimal irritation
Benzene, ethenyl-, homopolymer	Professional judgement	No significant irritation
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Rabbit	Corrosive

### Serious Eye Damage/Irritation

Name	Species	Value
HYDROGEN CHLORIDE	Rabbit	Corrosive
ETHOXYLATED C9-11 ALCOHOLS	Professional judgement	Moderate irritant
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Rabbit	Corrosive

### Skin Sensitization

Name	Species	Value
HYDROGEN CHLORIDE	Human and animal	Not classified
ETHOXYLATED C9-11 ALCOHOLS	Guinea pig	Not classified
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Guinea pig	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
HYDROGEN CHLORIDE	In Vitro	Some positive data exist, but the data are not sufficient for classification
ETHOXYLATED C9-11 ALCOHOLS	In Vitro	Not mutagenic
Benzene, ethenyl-, homopolymer	In Vitro	Not mutagenic
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	In Vitro	Not mutagenic
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	In vivo	Not mutagenic

### Carcinogenicity

Name	Route	Species	Value
HYDROGEN CHLORIDE	Not Specified	Human and animal	Some positive data exist, but the data are not sufficient for classification
Benzene, ethenyl-, homopolymer	Not Specified	Rat	Some positive data exist, but the data are not sufficient for classification
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM	Ingestion	Rat	Not carcinogenic

CHLORIDES

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for female reproduction	Rat	NOAEL 250 mg/kg/day	2 generation
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for development	Rat	NOAEL 250 mg/kg/day	2 generation
ETHOXYLATED C9-11 ALCOHOLS	Dermal	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	2 generation
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Ingestion	Not classified for female reproduction	Rat	NOAEL 48 mg/kg/day	2 generation
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Ingestion	Not classified for male reproduction	Rat	NOAEL 30.5 mg/kg/day	2 generation
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	Ingestion	Not classified for development	Rat	NOAEL 48 mg/kg/day	2 generation

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

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
HYDROGEN CHLORIDE	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not available	
ETHOXYLATED C9-11 ALCOHOLS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	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
ETHOXYLATED C9-11 ALCOHOLS	Dermal	kidney and/or bladder   heart   hematopoietic system   liver   nervous system   respiratory system	Not classified	Rat	NOAEL 125 mg/kg/day	13 weeks
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	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

**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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

**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

**15.2. State Regulations**

Contact 3M for more information.

**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 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.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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.

#### 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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