

### **Material Safety Data Sheet**

Copyright, 2006, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

PRODUCT NAME: 3M (TM) DOSE 'n FILL CLEANING SYSTEM, RESTROOM CLEANER

STARTER KIT

**MANUFACTURER:** 3M

**DIVISION:** Commercial Care Division

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

**Issue Date:** 06/02/2006 **Supercedes Date:** 04/21/2005

**Document Group:** 20-0112-1

#### **ID** Number(s):

70-0711-9712-6

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

18-9388-2, 18-9389-0

Revision Changes: Copyright was modified.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M MATERIAL SAFETY DATA SHEET  $\,3M$  (TM) DOSE 'n FILL CLEANING SYSTEM, RESTROOM CLEANER STARTER KIT 06/02/2006

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.



### **Material Safety Data Sheet**

Copyright, 2006, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 3M(TM) DOSE 'n FILL CLEANING SYSTEM, RESTROOM CLEANER REFILL

**CARTRIDGE** 

**MANUFACTURER:** 3M

**DIVISION:** Commercial Care Division

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

**Issue Date:** 12/22/2006 **Supercedes Date:** 11/15/2006

**Document Group:** 18-9388-2

**Product Use:** 

Intended Use: Disinfectant

Specific Use: Mild acid cleaner removes soap scum and scale from bathroom surfaces including

plastic, porcelain, ceramic, fiberglass, floors and fixtures

### **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	% by Wt
1-OCTYL-2-PYRROLIDINONE	2687-94-7	10 - 30
WATER	7732-18-5	10 - 30
HYDROXYACETIC ACID	79-14-1	10 - 30
MALIC ACID	6915-15-7	10 - 30
AMINES, COCO ALKYLDIMETHYL, N-OXIDES	61788-90-7	1 - 5
FRAGRANCE	Trade Secret	< 3
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	68424-85-1	2.00
ETHYL ALCOHOL	64-17-5	0.5 - 1.5
OCTYLDECYLDIMETHYLAMMONIUM CHLORIDE	32426-11-2	1.50
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7173-51-5	0.90
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5538-94-3	0.60
METHOXYACETIC ACID	625-45-6	0.1 - 1

### **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

**CARTRIDGE** 12/22/2006

Specific Physical Form: Liquid

Odor, Color, Grade: Green color with floral fragrance.

General Physical Form: Liquid

Immediate health, physical, and environmental hazards: May cause chemical eye burns. May cause allergic skin reaction. May cause chemical skin burns. May cause chemical gastrointestinal burns. Contains a chemical or chemicals which can cause cancer. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### 3.2 POTENTIAL HEALTH EFFECTS

### **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.

#### **Skin Contact:**

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

#### **Inhalation:**

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

May be absorbed following inhalation and cause target organ effects.

#### Ingestion:

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 be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

NOTE: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

<u>Ingredient</u> <u>C.A.S. No.</u> <u>Class Description</u> <u>Regulation</u>

**CARTRIDGE** 12/22/2006

ETHYL ALCOHOL

64-17-5 Group 1

International Agency for Research on Cancer

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

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

### **SECTION 4: FIRST AID MEASURES**

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 15 minutes. Get immediate medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### 4.2 NOTE TO PHYSICIANS

Measures against circulatory shock, respiratory depression, and convulsion may be needed.

Probable mucosal damage may contraindicate the use of gastric lavage.

### **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Flash Point Not Applicable

OSHA Flammability Classification: Not Applicable

#### 5.2 EXTINGUISHING MEDIA

Material will not burn.

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Nonflammable.

Unusual Fire and Explosion Hazards: Material will not burn.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully cover the spill with soda ash (sodium carbonate) or sodium bicarbonate. Work from around the perimeter inward. Avoid splashing. Add enough water to ease mixing and stir. Continue stirring and adding water and neutralizing agent until the reaction stops. Let cool before collecting. Or use a commercially available 'Acid spill' clean-up kit. Follow the kit directions exactly, as specified. 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 toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible. Clean up residue with a dilute solution (approximately 1 to 5%) of soda ash (sodium carbonate) or baking soda (sodium bicarbonate) in water. Collect the resulting residue containing solution. 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. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Keep out of the reach of children. This product is not intended to be used without prior dilution as specified on the product label. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not use on marble.

#### 7.2 STORAGE

Do not store containers on their sides. Store away from areas where product may come into contact with food or pharmaceuticals. Store away from strong bases.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use in a well-ventilated area. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, special ventilation is not required.

### **8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, eye contact with the concentrate is not expected to occur.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, the following eye protection is recommended: Indirect Vented Goggles, Full Face Shield.

#### 8.2.2 Skin Protection

Avoid skin contact. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, skin contact with the concentrate is not expected to occur.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, select and use gloves and/or protective

clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material is recommended: Butyl Rubber, Nitrile.

### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL(TM) Chemical Dispenser, respiratory protection is not required.

If the product is not used with the Twist 'n Fill system or if there is an accidental release, select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Fullface airpurifying respirator with organic vapor/acid gas cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 8.3 EXPOSURE GUIDELINES

Ingredient	Authority	Type	Limit	<b>Additional Information</b>
ALUMINUM PYRO POWDERS	ACGIH	TWA, as Al	5 mg/m3	
ALUMINUM PYRO POWDERS	OSHA	TWA, as Al	5 mg/m3	Table Z-1A
COPPER COMPOUNDS	ACGIH	TWA, as Cu dust or	1 mg/m3	
		mist	C	
COPPER COMPOUNDS	OSHA	TWA, as dust or mist	1 mg/m3	Table Z-1A
ETHYL ALCOHOL	ACGIH	TWA	1000 ppm	Table A4
ETHYL ALCOHOL	OSHA	TWA	1000 ppm	Table Z-1
HYDROXYACETIC ACID	CMRG	TWA	10 mg/m3	
MANGANESE COMPOUNDS	OSHA	CEIL, as Mn	5 mg/m3	Table Z-1A
MANGANESE, INORGANIC	ACGIH	TWA, as Mn	0.2 mg/m3	
COMPOUNDS				
MOLYBDENUM, INSOLUBLE	ACGIH	TWA, respirable	3 mg/m3	
COMPOUNDS			C	
MOLYBDENUM, INSOLUBLE	ACGIH	TWA, as Mo,	10 mg/m3	
COMPOUNDS		inhalable fraction	_	
MOLYBDENUM, INSOLUBLE	OSHA	TWA, as Mo	10 mg/m3	Table Z-1A
COMPOUNDS			-	

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Liquid

Odor, Color, Grade: Green color with floral fragrance.

General Physical Form: Liquid

Flash Point Not Applicable

**Boiling point** > 95 °F

**CARTRIDGE** 12/22/2006

Vapor Pressure 15 psia - 40 psia [@ 131 °F]

Specific Gravity Approximately 1.12 [Ref Std: WATER=1]

**pH** Approximately 0.9 - 1.5

Solubility in Water Complete

Hazardous Air Pollutants No Data Available

**Volatile Organic Compounds** 1 % - 5 % [*Test Method:* calculated per CARB title 2]

Percent volatile No Data Available

VOC Less H2O & Exempt Solvents 12.58 g/l - 62.88 g/l [Test Method: calculated per CARB title 2]

Viscosity Approximately 100 centipoise

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: Strong bases

Hazardous Polymerization: Hazardous polymerization will not occur.

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

### SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for 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**

Waste Disposal Method: Dispose of waste product in a permitted hazardous waste facility.

**CARTRIDGE** 12/22/2006

EPA Hazardous Waste Number (RCRA): D002 (Corrosive)

Since regulations vary, consult applicable regulations or authorities before disposal.

### **SECTION 14:TRANSPORT INFORMATION**

ID Number UPC ID Number UPC

70-0711-9715-9 00-48011-54108-7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

### **SECTION 15: REGULATORY INFORMATION**

### US FEDERAL REGULATIONS

311/312 Hazard Categories:

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

#### STATE REGULATIONS

#### CHEMICAL INVENTORIES

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

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

The components of this material are in compliance with the new chemical notification requirements for the Korean Existing Chemicals Inventory.

The components of this product are listed on the Australian Inventory of Chemical Substances.

All the components of this product are listed on China's Inventory of Chemical Substances.

The components of this product are listed on the Canadian Domestic Substances List.

### INTERNATIONAL REGULATIONS

This MSDS 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: 0 Reactivity: 0 Special Hazards: None

Acid/Base: Acid Corrosive: Yes

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:** 3 Flammability: 0 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) 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® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

### **Revision Changes:**

Section 3: Potential effects from skin contact information was modified.

Section 2: Ingredient table was modified.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

3M MSDSs are available at www.3M.com



### **Material Safety Data Sheet**

Copyright, 2007, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 3M(TM) DOSE 'n FILL CLEANING SYSTEM, RESTROOM CLEANER (Ready-to-use)

**MANUFACTURER:** 3M

**DIVISION:** Commercial Care Division

**ADDRESS:** 3M Center

St. Paul, MN 55144-1000

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

**Issue Date:** 02/07/2007 **Supercedes Date:** 02/24/2006

**Document Group:** 18-9389-0

**Product Use:** 

Intended Use: Disinfectant

Specific Use: Mild acid cleaner removes soap scum and scale from bathroom surfaces including

plastic, porcelain, ceramic, fiberglass, floors and fixtures.

### **SECTION 2: INGREDIENTS**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
WATER	7732-18-5	> 95
1-OCTYL-2-PYRROLIDINONE	2687-94-7	< 1
HYDROXYACETIC ACID	79-14-1	< 1
MALIC ACID	6915-15-7	< 1
BENZYL-C12-16-ALKYLDIMETHYL AMMONIUM CHLORIDES	68424-85-1	< 0.1
OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE	32426-11-2	< 0.1
DIDECYLDIMETHYLAMMONIUM CHLORIDE	7173-51-5	< 0.1
DIOCTYL DIMETHYL AMMONIUM CHLORIDE	5538-94-3	< 0.1

### **SECTION 3: HAZARDS IDENTIFICATION**

#### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

Odor, Color, Grade: Green liquid with floral fragance.

General Physical Form: Liquid

#### Immediate health, physical, and environmental hazards:

### 3.2 POTENTIAL HEALTH EFFECTS

#### **Eye Contact:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

#### **Inhalation:**

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

### **Ingestion:**

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

#### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

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

### **SECTION 4: FIRST AID MEASURES**

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

### **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot ApplicableOSHA Flammability Classification:Not Applicable

#### 5.2 EXTINGUISHING MEDIA

Material will not burn.

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Nonflammable.

Unusual Fire and Explosion Hazards: Material will not burn.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Ventilate the area with fresh air. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. 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. Collect as much of the spilled material as possible. Clean up residue with water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Keep out of the reach of children. Avoid breathing of vapors, mists or spray. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. NOTE: The above precautionary information presumes that this ready-to-use product has been diluted and dispensed from a TWIST 'n FILL(TM) Chemical Dispenser.

### 7.2 STORAGE

Store under normal warehouse conditions.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

### **8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields.

#### 8.2.2 Skin Protection

Avoid prolonged or repeated skin contact. Gloves not normally required.

If prolonged or repeated skin contact is expected, select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Butyl Rubber, Neoprene, Nitrile Rubber.

### **8.2.3 Respiratory Protection**

Avoid breathing of vapors, mists or spray. Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<b>Authority</b>	<b>Type</b>	<u>Limit</u>	<b>Additional Information</b>
ALUMINUM PYRO POWDERS	ACGIH	TWA, as Al	5 mg/m3	
ALUMINUM PYRO POWDERS	OSHA	TWA, as Al	5 mg/m3	Table Z-1A
COPPER COMPOUNDS	ACGIH	TWA, as Cu dust or	1 mg/m3	
		mist		
COPPER COMPOUNDS	OSHA	TWA, as dust or mist	1 mg/m3	Table Z-1A
HYDROXYACETIC ACID	CMRG	TWA	10 mg/m3	
MANGANESE COMPOUNDS	OSHA	CEIL, as Mn	5 mg/m3	Table Z-1A
MANGANESE, INORGANIC	ACGIH	TWA, as Mn	0.2  mg/m3	
COMPOUNDS				
MOLYBDENUM, INSOLUBLE	ACGIH	TWA, respirable	3 mg/m3	
COMPOUNDS				
MOLYBDENUM, INSOLUBLE	ACGIH	TWA, as Mo,	10 mg/m3	
COMPOUNDS		inhalable fraction		
MOLYBDENUM, INSOLUBLE	OSHA	TWA, as Mo	10 mg/m3	Table Z-1A
COMPOUNDS				

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Liquid

**Odor, Color, Grade:** Green liquid with floral fragance.

General Physical Form: Liquid

Autoignition temperatureNot ApplicableFlash PointNot ApplicableFlammable Limits - LELNot ApplicableFlammable Limits - UELNot ApplicableBoiling pointApproximately 212 °F

Vapor Density No Data Available

Vapor Pressure No Data Available

Specific Gravity
1 [Ref Std: WATER=1]
pH
Approximately 3

Melting point Not Applicable

Solubility in Water Complete

# 3M MATERIAL SAFETY DATA SHEET 3M(TM) DOSE 'n FILL CLEANING SYSTEM, RESTROOM CLEANER (Ready-to-use) 02/07/2007

Volatile Organic Compounds VOC Less H2O & Exempt Solvents Viscosity < 0.1 % [*Test Method:* calculated per CARB title 2] < 100 g/l [*Test Method:* calculated per CARB title 2] Approximately 100

### **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: Strong bases

Hazardous Polymerization: Hazardous polymerization will not occur.

**Hazardous Decomposition:** Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### ECOTOXICOLOGICAL INFORMATION

A 3M Product Environmental Data Sheet (PED) is available. Not determined.

#### CHEMICAL FATE INFORMATION

A 3M Product Environmental Data Sheet (PED) is available. Not determined.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Discharge spent solutions and small quantities of less than 5 gallons (20 liters) to a municipal or industrial wastewater treatment system.

As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

### **SECTION 14:TRANSPORT INFORMATION**

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

### **SECTION 15: REGULATORY INFORMATION**

### US FEDERAL REGULATIONS

### 311/312 Hazard Categories:

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

#### STATE REGULATIONS

#### CHEMICAL INVENTORIES

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

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

The components of this material are in compliance with the new chemical notification requirements for the Korean Existing Chemicals Inventory.

The components of this product are listed on the Australian Inventory of Chemical Substances.

All the components of this product are listed on China's Inventory of Chemical Substances.

The components of this product are listed on the Canadian Domestic Substances List.

#### INTERNATIONAL REGULATIONS

This MSDS 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 Reactivity: 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 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) 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® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings

# $3M\ MATERIAL\ SAFETY\ DATA\ SHEET\ 3M(TM)\ DOSE\ 'n\ FILL\ CLEANING\ SYSTEM,\ RESTROOM\ CLEANER\ (Ready-to-use)$

Association (NPCA).

Revision Changes:

Section 1: Product use information was modified.

Copyright was modified.

Section 6: Release measures information was modified.

Section 7: Handling information was modified.

Section 8: Exposure guidelines ingredient information was modified.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

3M MSDSs are available at www.3M.com