

# **Material Safety Data Sheet**

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M<sup>TM</sup>GLASS CLEANER CONCENTRATE (Product No. 1, Twist 'n Fill<sup>TM</sup>System)

**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:** 05/13/2002 **Supercedes Date:** 05/13/2002

**Document Group:** 08-2582-8

**Product Use:** 

Specific Use: Non-streaking cleaner for glass, mirrors, stainless steel, chrome, aluminum, ceramic and

plastic.

# **SECTION 2: INGREDIENTS**

Ingredient	C.A.S. No.	% by Wt
1-PROPOXY-2-PROPANOL	1569-01-3	60 - 100
LAURETH-6 CARBOXYLIC ACID	157707-83-0	1 - 5
2-PROPOXY-1-PROPANOL	10215-30-2	1 - 5
DIPROPYLENE GLYCOL	25265-71-8	1 - 5
PROPYLENE GLYCOL	57-55-6	1 - 5
DIPROPYLENE GLYCOL N-PROPYL ETHER	29911-27-1	1 - 5
ETHANOLAMINE	141-43-5	0.5 - 1.5

# **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid

Odor, Color, Grade: Clear, dark blue color. Ether odor.

General Physical Form: Liquid

**Immediate health, physical, and environmental hazards:** May cause severe eye irritation. May cause chemical skin burns.

### 3.2 POTENTIAL HEALTH EFFECTS

## **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and

impaired vision.

### **Skin Contact:**

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

#### **Inhalation:**

Single exposure, above recommended guidelines, may cause:

Upper 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, nausea, diarrhea and vomiting.

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

### **Target Organ Effects:**

Single exposure, above recommended guidelines, may cause:

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

The route of exposure for Central Nervous System Depression is inhalation.

### 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.

# **SECTION 5: FIRE FIGHTING MEASURES**

## 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature** No Data Available

Flash Point 118 °F

**Flammable Limits - LEL**No Data Available **Flammable Limits - UEL**No Data Available

OSHA Flammability Classification: Class II Combustible Liquid

Page 2 of 6

### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**Unusual Fire and Explosion Hazards:** Combustible liquid and vapor.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Contain spill. Dilute in a large excess of water. Carefully, and with stirring, add appropriate dilute acid such as sulfamic acid or vinegar. Confirm neutrality. 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 using non-sparking tools. Clean up residue with water. Place in a closed container approved for transportation by appropriate authorities. Seal the container. 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

Avoid contact with oxidizing agents. Avoid eye contact with vapors, mists, or spray. Avoid breathing of vapors, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Keep container closed when not in use. Keep out of the reach of children.

### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL<sup>TM</sup>Chemical Dispenser, special ventilation is not required.

# 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

NOTE: When used as directed and diluted and dispensed with a TWIST 'n FILL<sup>TM</sup>Chemical Dispenser, eye contact with the concentrate is not expected to occur. Avoid eye contact.

The following eye protection(s) are recommended: Full Face Shield.

### 8.2.2 Skin Protection

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

Select and use gloves and/or protective clothing to prevent skin contact based on the results 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.

### **8.2.3 Respiratory Protection**

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

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor 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 ingest. 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>
ETHANOLAMINE	ACGIH	TWA	3 ppm	
ETHANOLAMINE	ACGIH	STEL	6 ppm	
ETHANOLAMINE	OSHA	TWA	3 ppm	Table Z-1A
ETHANOLAMINE	OSHA	STEL	6 ppm	Table Z-1A
PROPYLENE GLYCOL	AIHA	TWA -	50 ppm	as vapor and aerosol
		specific form		

### 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: Clear, dark blue color. Ether odor.

General Physical Form: Liquid

**Autoignition temperature** No Data Available

Flash Point 118 °F

Flammable Limits - LEL

Flammable Limits - UEL

No Data Available

No Data Available

Approximately 300 °F

Approximately 300 °F

Density 0.88

Vapor DensityNo Data AvailableVapor PressureNo Data Available

**Specific Gravity pH**Approximately 0.88 [*Ref Std:* WATER=1]
Approximately 10 [*Details:* 10% in water]

Melting point No Data Available

Solubility in Water Complete

**Evaporation rate** No Data Available

Volatile Organic Compounds >=90 % Percent volatile >=90 %

VOC Less H2O & Exempt Solvents No Data Available

Viscosity <=50 centipoise

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: Strong oxidizing agents

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## **Hazardous Decomposition or By-Products**

**Substance** Condition

Aldehydes During Combustion
Carbon monoxide During Combustion
Carbon dioxide During Combustion

# **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

**Not Determined** 

## CHEMICAL FATE INFORMATION

**Not Determined** 

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable)

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

# **SECTION 14:TRANSPORT INFORMATION**

ID Number	UPC	ID Number	UPC
70-0707-9584-7	00-48011-23357-9	70-0707-9593-8	00-48011-23366-1
70-0708-3892-8	00-48011-23915-1	70-0708-4007-2	00-48011-23357-9
70-0709-8998-6		70-0710-0958-6	00-48011-23915-1

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

### **CHEMICAL INVENTORIES**

TSCA: All components used in the manufacture of this material are in compliance with the U.S. TSCA inventory. One or more of the components in this material is not listed on the TSCA inventory, but is approved for specific commercial use(s) under a U.S. EPA low volume exemption (up to 1000 kg/yr).

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: 2 Reactivity: 0 Special Hazards: None

National Fire Protection Agency Hazard Codes are designed for use by firefighters, sheriffs, or other emergency response teams who are concerned with the hazards of burning or exploding materials. These NFPA codes are not intended to address the hazards of this product other than in a fire situation.

### **HMIS Hazard Classification**

**Health:** 3 Flammability: 2 Reactivity: 0 Protection: X - See PPE section.

HMIS codes are intended for use in everyday workplace settings to provide a rapid indication of the occupational hazards associated with chemicals used in the workplace.

Revision Changes: Not Applicable

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