10-07-05



# Material Safety Data Sheet



## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M (TM) GLASS CLEANER (CONCENTRATE) (Dose 'n Fill Cleaning 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:** 01/13/2004
**Supercedes Date:** Initial Issue

**Document Group:** 18-9383-3

## SECTION 2: INGREDIENTS

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| 1-PROPOXY-2-PROPANOL | 1569-01-3 | 60 - 100 |
| ALKYL ETHOXY CARBOXYLIC ACID | 220622-96-8 | 1 - 5 |
| 2-PROPOXY-1-PROPANOL | 10215-30-2 | < 2 |
| ETHANOLAMINE | 141-43-5 | 0.5 - 1.5 |
| PROPYLENE GLYCOL | 57-55-6 | < 1.5 |

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Liquid
**Odor, Color, Grade:** Clear, dark blue-violet color with floral fragrance
**General Physical Form:** Liquid
**Immediate health, physical, and environmental hazards:** May cause severe eye irritation. May cause chemical skin burns. May cause target organ effects.

### 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.

May be absorbed following inhalation and cause target organ effects.

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

**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.

## 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:** If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, 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 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 |

### 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 equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**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:** 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. 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. 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 using non-sparking tools. Clean up residue with water. Place in a metal 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

This product is not intended to be used without prior dilution as specified on the product label. Avoid eye contact with vapors, mists, or spray. Avoid skin contact. 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. Avoid contact with oxidizing agents. Keep out of the reach of children.

### 7.2 STORAGE

Store away from acids. Store away from oxidizing agents. 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

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

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

NOTE: When used as directed and diluted and dispensed with a DOSE 'n FILL(TM) 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 DOSE 'n FILL(TM) Chemical Dispenser, skin contact with the concentrate is not expected to occur. Avoid skin contact. Gloves made from the following material(s) are recommended: Butyl Rubber, Fluoroelastomer (Viton), Neoprene.

#### 8.2.3 Respiratory Protection

NOTE: When used as directed and diluted and dispensed with a DOSE 'n FILL(TM) 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 eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

### 8.3 EXPOSURE GUIDELINES

| Ingredient | Authority | Type | Limit | Additional Information |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 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 - specific form | 10 mg/m3 | as aerosol |
| PROPYLENE GLYCOL | AIHA | TWA | 50 ppm | total |

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-violet color with floral fragrance |
| **General Physical Form:** | Liquid |
| **Autoignition temperature** | *No Data Available* |
| **Flash Point** | 118 °F |
| **Flammable Limits - LEL** | *No Data Available* |
| **Flammable Limits - UEL** | *No Data Available* |
| **Boiling point** | Approximately 300 °F |
| **Density** | Approximately 0.9 g/ml [*Ref Std:* WATER=1] |
| **Vapor Density** | *No Data Available* |
| **Vapor Pressure** | No Data Available |
| **Specific Gravity** | Approximately 0.9 [*Ref Std:* WATER=1] |
| **pH** | 9.5 - 10.5 [*Details:* 10% in water] |
| **Melting point** | *Not Applicable* |
| **Solubility in Water** | Complete |
| **Evaporation rate** | *No Data Available* |
| **Volatile Organic Compounds** | 60 - 100 % [*Test Method:* calculated per CARB title 2] |
| **Percent volatile** | 60 - 100 % |
| **VOC Less H2O & Exempt Solvents** | 600 - 1000 g/l [*Test Method:* calculated per CARB title 2] |
| **Viscosity** | < 50 centipoise |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong oxidizing agents; Heat; Sparks and/or flames

**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 |
|---|---|---|---|
| 70-0711-9718-3 | 00-48011-54111-7 | 70-0711-9719-1 | 00-48011-54112-4 |

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

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

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

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

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