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Concentrate3M MATERIAL SAFETY DATA SHEET 3M (TM) NEUTRAL CLEANER CONCENTRATE (Product No. 3, Twist 'n Fill (tm) System)  
04/25/2003

## Material Safety Data Sheet

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M (TM) NEUTRAL CLEANER CONCENTRATE (Product No. 3, Twist 'n Fill (tm) 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: 04/25/2003  
Supersedes Date: 10/02/2001

Document Group: 06-2097-1

Product Use:  
Specific Use: NEUTRAL CLEANER CONCENTRATE

## SECTION 2: INGREDIENTS

| Ingredient                 | C.A.S. No.   | % by Wt |
|----------------------------|--------------|---------|
| WATER                      | 7732-18-5    | 40 - 70 |
| HYDROXYALKYL AMINE OXIDES  | 68478-65-9   | 10 - 30 |
| ISOPROPYL ALCOHOL          | 67-63-0      | 5 - 10  |
| 2-(2-ETHYLHEXYLOXY)ETHANOL | 1559-35-9    | 3 - 7   |
| FRAGRANCE                  | Trade Secret | 0.1 - 1 |

## SECTION 3: HAZARDS IDENTIFICATION

## 3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid  
Odor, Color, Grade: Bright, clear green-yellow liquid with citrus fragrance  
General Physical Form: Liquid  
Immediate health, physical, and environmental hazards: Combustible liquid and vapor. May cause severe eye irritation. May cause target organ effects.

## 3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

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

## Skin Contact:

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

## 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 Effects: Signs/symptoms may include stomach upset, nausea, vomiting and diarrhea.

## 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.

## 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

A 3M Product Environmental Data Sheet (PED) is available. A conservative assessment indicates this product presents a low environmental risk. Components released to the environment through use and disposal are expected to have insignificant environmental impacts.

## 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: Immediately flush skin with large amounts of water. If signs/symptoms develop, get medical attention.

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                       | 102 °F [Test Method: Closed Cup] |
| 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 clothing, including helmet, self-contained, positive pressure or pressure

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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: Observe precautions from other sections. 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. Collect the resulting residue containing solution. 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

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 TWIST '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 TWIST 'n FILL(TM) Chemical Dispenser, eye contact with the concentrate is not expected to occur. Avoid eye contact with vapors, mists, or spray. The following eye protection(s) are recommended: Full Face Shield, Indirect Vented Goggles.

#### 8.2.2 Skin Protection

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. Avoid skin contact. 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.

#### 8.2.3 Respiratory Protection

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NOTE: When used as directed and diluted and dispensed with a TWIST '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.

## 8.3 EXPOSURE GUIDELINES

| Ingredient        | Authority | Type | Limit   | Additional Information |
|-------------------|-----------|------|---------|------------------------|
| ISOPROPYL ALCOHOL | ACGIH     | TWA  | 400 ppm |                        |
| ISOPROPYL ALCOHOL | ACGIH     | STEL | 500 ppm |                        |
| ISOPROPYL ALCOHOL | OSHA      | TWA  | 400 ppm | Table Z-1A             |
| ISOPROPYL ALCOHOL | OSHA      | STEL | 500 ppm | Table Z-1A             |

### 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:                          | Bright, clear green-yellow liquid with citrus fragrance   |
| General Physical Form:                       | Liquid  |
| Autoignition temperature:                    | No Data Available   |
| Flash Point:                                 | 102 °F [Test Method: Closed Cup]                          |
| Flammable Limits - LEL:                      | No Data Available   |
| Flammable Limits - UEL:                      | No Data Available   |
| Boiling point:                               | > 200 °F  |
| Density:                                     | No Data Available   |
| Vapor Density:                               | No Data Available   |
| Vapor Pressure:                              | No Data Available   |
| Specific Gravity:                            | 1 [Ref Std: WATER=1]                                      |
| pH:  | 6 - 7   |
| Melting point:                               | Not Applicable  |
| Solubility in Water:                         | Complete  |
| Evaporation rate:                            | Approximately 1 [Ref Std: WATER=1]                        |
| Volatile Organic Compounds:                  | 15 - 40 % [Test Method: calculated per CARB title 2]      |
| Percent volatile:                            | 55 - 100 %  |
| VOC Less H <sub>2</sub> O & Exempt Solvents: | 200 - 1300 g/l [Test Method: calculated per CARB title 2] |
| Viscosity:                                   | < 100 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