Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ PHENOLIC DISINFECTANT CLEANER Ready-to-Use (Product No. 18, Twist ‘n Fill™ System)
MANUFACTURER: 3M
DIVISION: Building & Commercial Services Division
ADDRESS: 3M Center
St. Paul, MN  55144-1000

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

Issue Date: 06/11/2008
Supercedes Date: 11/29/2005
Document Group: 07-3146-3
Product Use:
   Intended Use: Disinfectant

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>&gt; 99</td>
</tr>
<tr>
<td>O-BENZYL-P-CHLOROPHENOL</td>
<td>120-32-1</td>
<td>0.0389</td>
</tr>
<tr>
<td>O-PHENYLPHENOL</td>
<td>90-43-7</td>
<td>0.03698</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>107-21-1</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1310-73-2</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Liquid
Odor, Color, Grade: Clear, essentially colorless liquid
General Physical Form: Liquid
Immediate health, physical, and environmental hazards: Contains a chemical or chemicals which can cause cancer.

3.2 POTENTIAL HEALTH EFFECTS

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

Contains a chemical or chemicals which can cause cancer.

O-Phenylenol has been shown to cause cancer in studies with lab animals. The effect resulted from high oral doses. This is not an expected result from the recommended use of this product.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

A 3M Product Environmental Data Sheet (PED) is available.
A conservative assessment of this product indicates that its use and proper disposal are likely to present a low environmental risk. Potential use and misuse are unlikely to cause components to enter the environment in quantities or by routes that could cause adverse 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: 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

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: Not applicable.

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. 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. Place in a closed container approved for transportation by appropriate authorities. 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. Avoid breathing of vapors, mists or spray. Avoid prolonged or repeated skin contact. 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.
Wear Safety glasses with side shields when eye contact is possible due to splashing, spraying, or misting of material.

8.2.2 Skin Protection
Avoid 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, and 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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Authority</th>
<th>Type</th>
<th>Limit</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>ACGIH</td>
<td>CEIL, as aerosol</td>
<td>100 mg/m³</td>
<td>Table A4</td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>CMRG</td>
<td>CEIL, as vapor and aerosol</td>
<td>100 mg/m³</td>
<td></td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>OSHA</td>
<td>CEIL</td>
<td>50 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>ACGIH</td>
<td>CEIL</td>
<td>2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>CMRG</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td></td>
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<tr>
<td>SODIUM HYDROXIDE</td>
<td>OSHA</td>
<td>CEIL</td>
<td>2 mg/m³</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>OSHA</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

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, essentially colorless liquid
General Physical Form: Liquid

Flash Point: Not Applicable

Boiling point: > 200 °F

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

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

pH: Approximately 10

Solubility in Water: Complete

Evaporation rate: Approximately 1 [Ref Std: WATER=1]

Volatile Organic Compounds: < 0.1 % [Test Method: calculated per CARB title 2]

Percent volatile: > 95 %

VOC Less H2O & Exempt Solvents: > 1350 g/l [Test Method: calculated per CARB title 2]

Viscosity: < 100 centipoise

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known
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 (less than 5 gal.(19 L)) to a 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
CALIFORNIA PROPOSITION 65

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-PHENYLPHENOL</td>
<td>90-43-7</td>
<td><strong>Carcinogen</strong></td>
</tr>
</tbody>
</table>

** WARNING: contains a chemical which can cause cancer.
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.

The components of this product are listed on Japan's Chemical Substance Control Law List (also known as the Existing and New Chemical Substances List.)

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

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

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

<table>
<thead>
<tr>
<th>NFPA Hazard Classification</th>
<th>HMIS Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health: 1</td>
<td>Flammability: 0</td>
</tr>
</tbody>
</table>

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.

Reason for Reissue: The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

Revision Changes:
Section 1: Product use information was modified.
Section 1: Division name was modified.
Copyright was modified.
Section 7: Handling information was modified.
Section 7: Storage information was modified.
Section 8: Eye/face protection comment was added.
Section 8: Skin protection comment was added.
Section 2: Ingredient table was added.
Section 8: Exposure guidelines ingredient information was added.
Section 8: Exposure guidelines data source legend was added.
Section 15: California proposition 65 ingredient information was added.
Section 15: California proposition 65 heading was added.
Section 15: California proposition 65 cancer warning was added.

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