



## Safety Data Sheet

Copyright, 2014, 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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-5643-1 | <b>Version Number:</b>  | 2.00     |
| <b>Issue Date:</b>     | 09/09/14  | <b>Supersedes Date:</b> | 06/07/12 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Phenolic Disinfecting and Cleaning Concentrate (Product No. 18, Twist 'n Fill™ System)

#### Product Identification Numbers

|                |                  |                |                  |
|----------------|------------------|----------------|------------------|
| ID Number      | UPC              | ID Number      | UPC              |
| 61-0000-6341-4 |                  | 61-0000-6342-2 |                  |
| 70-0715-9222-7 | 00-48011-59756-5 | 70-0715-9223-5 | 00-48011-59755-8 |

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Disinfectant

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Commercial Solutions Division           |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Corrosive to metal: Category 1.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 1.  
Skin Sensitizer: Category 1.  
Specific Target Organ Toxicity (single exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark | Health Hazard |

## Pictograms



## Hazard Statements

May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes damage to organs:

cardiovascular system |

nervous system |

kidney/urinary tract |

respiratory system |

## Precautionary Statements

### Prevention:

Keep only in original container.

Do not breathe fume/vapors.

Wear protective gloves, protective clothing, and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Specific treatment (see Notes to Physician on this label).

Absorb spillage to prevent material damage.

### Storage:

Store in a corrosive resistant container with a resistant inner liner.

Store locked up.

### Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### Notes to Physician:

This product contains ethylene glycol. Effects of oral ethylene glycol poisoning can be divided into three stages which generally occur over a time-course of hours to days following ingestion: Stage 1 (neurological effects), stage 2 (cardiopulmonary effects) and stage 3 (renal effects). If ethylene glycol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

## 2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.

12% of the mixture consists of ingredients of unknown acute oral toxicity.

19% of the mixture consists of ingredients of unknown acute dermal toxicity.

22% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### SECTION 3: Composition/information on ingredients

| <b>Ingredient</b>                 | <b>C.A.S. No.</b> | <b>% by Wt</b>           |
|-----------------------------------|-------------------|--------------------------|
| WATER                             | 7732-18-5         | 60 - 90 Trade Secret *   |
| SODIUM MONO-C10-16-ALKYL SULFATES | 68585-47-7        | 5 - 10 Trade Secret *    |
| O-BENZYL-P-CHLOROPHENOL           | 120-32-1          | 4.75                     |
| O-PHENYLPHENOL                    | 90-43-7           | 4.75                     |
| ETHYLENE GLYCOL                   | 107-21-1          | 1 - 5 Trade Secret *     |
| ISOPROPYL ALCOHOL                 | 67-63-0           | 1 - 5 Trade Secret *     |
| SODIUM HYDROXIDE                  | 1310-73-2         | 1 - 5 Trade Secret *     |
| DODECYLBENZENESULFONIC ACID       | 27176-87-0        | 0.5 - 1.5 Trade Secret * |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

##### Skin Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

##### Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

##### If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

This product contains ethylene glycol. Effects of oral ethylene glycol poisoning can be divided into three stages which generally occur over a time-course of hours to days following ingestion: Stage 1 (neurological effects), stage 2 (cardiopulmonary effects) and stage 3 (renal effects). If ethylene glycol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

Contain spill. For large spills, if necessary, get assistance from professional spill clean up team. For small spills, carefully neutralize spill by adding appropriate dilute acid such as vinegar. Work slowly to avoid boiling or spattering. Continue to add neutralizing agent until reaction stops. Let cool before collecting. Or use a commercially available caustic (alkaline or basic) spill clean-up kit. Follow kit directions exactly. 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. Absorb spillage to prevent material damage. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. 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. Clean up residue with water. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Do not breathe fume/vapors. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

**7.2. Conditions for safe storage including any incompatibilities**

Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient       | C.A.S. No. | Agency | Limit type                           | Additional Comments            |
|------------------|------------|--------|--------------------------------------|--------------------------------|
| ETHYLENE GLYCOL  | 107-21-1   | ACGIH  | CEIL(as aerosol):100 mg/m3           | A4: Not class. as human carcin |
| ETHYLENE GLYCOL  | 107-21-1   | CMRG   | CEIL(as vapor and aerosol):100 mg/m3 |                                |
| SODIUM HYDROXIDE | 1310-73-2  | CMRG   | TWA:2 mg/m3                          |                                |
| SODIUM HYDROXIDE | 1310-73-2  | ACGIH  | CEIL:2 mg/m3                         |                                |
| SODIUM HYDROXIDE | 1310-73-2  | OSHA   | TWA:2 mg/m3                          |                                |

|                   |         |       |                          |                                |
|-------------------|---------|-------|--------------------------|--------------------------------|
| ISOPROPYL ALCOHOL | 67-63-0 | ACGIH | TWA:200 ppm;STEL:400 ppm | A4: Not class. as human carcin |
| ISOPROPYL ALCOHOL | 67-63-0 | OSHA  | TWA:980 mg/m3(400 ppm)   |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control fume/vapors. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

#### Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release: Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

Butyl Rubber

Nitrile Rubber

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. If product is not used with a chemical dispensing system or if there is an accidental release: Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended:

Apron – Butyl rubber

Apron – Nitrile

Apron - polymer laminate

#### Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required. If product is not used with a chemical dispensing system or if there is an accidental release: An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                |  |
|--------------------------------|--|
| General Physical Form:         | Liquid   |
| Odor, Color, Grade:            | Clear red to burnt orange liquid with floral fragrance     |
| Odor threshold                 | <i>No Data Available</i>                                   |
| pH                             | 12.2 - 13.2  |
| Boiling Point                  | > 212 °F   |
| Flash Point                    | No flash point   |
| Evaporation rate               | <i>No Data Available</i>                                   |
| Flammability (solid, gas)      | Not Applicable   |
| Flammable Limits(LEL)          | <i>Not Applicable</i>                                      |
| Flammable Limits(UEL)          | <i>Not Applicable</i>                                      |
| Vapor Pressure                 | <i>No Data Available</i>                                   |
| Vapor Density                  | <i>No Data Available</i>                                   |
| Specific Gravity               | 1.045 - 1.065  |
| Solubility in Water            | Complete   |
| Solubility- non-water          | <i>No Data Available</i>                                   |
| Decomposition temperature      | <i>No Data Available</i>                                   |
| Viscosity                      | 14.5 - 16.5 sec [Details: S-90 Zahn #2]                    |
| Volatile Organic Compounds     | 7 - 13 % weight [Test Method: calculated per CARB title 2] |
| Percent volatile               | 65 - 90 % weight   |
| VOC Less H2O & Exempt Solvents | 400 - 600 g/l [Test Method: calculated per CARB title 2]   |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Not determined

### 10.5. Incompatible materials

Strong acids

### 10.6. Hazardous decomposition products

| <u>Substance</u>   | <u>Condition</u> |
|--------------------|------------------|
| Carbon monoxide    | Not Specified    |
| Carbon dioxide     | Not Specified    |
| Oxides of Nitrogen | Not Specified    |

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**11.1. Information on Toxicological effects****Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

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

**Skin Contact:**

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

**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.

**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 cause target organ effects after ingestion.

**Target Organ Effects:****Single exposure may cause:**

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name                              | Route                          | Species | Value   |
|-----------------------------------|--------------------------------|---------|---|
| Overall product                   | Dermal                         |         | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                   | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE > 12.5 mg/l   |
| Overall product                   | Ingestion                      |         | No data available; calculated ATE > 5,000 mg/kg |
| SODIUM MONO-C10-16-ALKYL SULFATES | Ingestion                      | Rat     | LD50 > 2,000 mg/kg                              |
| ETHYLENE GLYCOL                   | Ingestion                      | Human   | LD50 1,600 mg/kg                                |
| ETHYLENE GLYCOL                   | Inhalation-Dust/Mist (4 hours) | Other   | LC50 estimated to be 5 - 12.5 mg/l              |
| ETHYLENE GLYCOL                   | Dermal                         | Rabbit  | 9,530 mg/kg                                     |
| ISOPROPYL ALCOHOL                 | Dermal                         | Rabbit  | LD50 12,870 mg/kg                               |
| ISOPROPYL ALCOHOL                 | Inhalation-Vapor (4 hours)     | Rat     | LC50 72.6 mg/l                                  |
| ISOPROPYL ALCOHOL                 | Ingestion                      | Rat     | LD50 4,710 mg/kg                                |
| DODECYLBENZENESULFONIC ACID       | Dermal                         |         | LD50 estimated to be 1,000 - 2,000 mg/kg        |
| DODECYLBENZENESULFONIC ACID       | Ingestion                      | Rat     | LD50 1,700 mg/kg                                |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name              | Species                 | Value                     |
|-------------------|-------------------------|---------------------------|
| ETHYLENE GLYCOL   | Rabbit                  | Minimal irritation        |
| ISOPROPYL ALCOHOL | Multiple animal species | No significant irritation |
| SODIUM HYDROXIDE  | Rabbit                  | Corrosive                 |

**Serious Eye Damage/Irritation**

| Name              | Species | Value           |
|-------------------|---------|-----------------|
| ETHYLENE GLYCOL   | Rabbit  | Mild irritant   |
| ISOPROPYL ALCOHOL | Rabbit  | Severe irritant |
| SODIUM HYDROXIDE  | Rabbit  | Corrosive       |

**Skin Sensitization**

| Name              | Species    | Value  |
|-------------------|------------|--|
| ETHYLENE GLYCOL   | Human      | Some positive data exist, but the data are not sufficient for classification |
| ISOPROPYL ALCOHOL | Guinea pig | Not sensitizing  |
| SODIUM HYDROXIDE  | Human      | Not sensitizing  |

**Respiratory Sensitization**

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

**Germ Cell Mutagenicity**

| Name              | Route    | Value         |
|-------------------|----------|---------------|
| ETHYLENE GLYCOL   | In Vitro | Not mutagenic |
| ETHYLENE GLYCOL   | In vivo  | Not mutagenic |
| ISOPROPYL ALCOHOL | In Vitro | Not mutagenic |
| ISOPROPYL ALCOHOL | In vivo  | Not mutagenic |
| SODIUM HYDROXIDE  | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name              | Route      | Species                 | Value  |
|-------------------|------------|-------------------------|--|
| ETHYLENE GLYCOL   | Ingestion  | Multiple animal species | Not carcinogenic   |
| ISOPROPYL ALCOHOL | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name              | Route      | Value  | Species                 | Test Result           | Exposure Duration    |
|-------------------|------------|--|-------------------------|-----------------------|----------------------|
| ETHYLENE GLYCOL   | Ingestion  | Not toxic to female reproduction   | Multiple animal species | NOAEL 1,000 mg/kg/day | 2 years              |
| ETHYLENE GLYCOL   | Ingestion  | Not toxic to male reproduction   | Multiple animal species | NOAEL 1,000 mg/kg/day | 2 years              |
| ETHYLENE GLYCOL   | Dermal     | Some positive developmental data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 3,549 mg/kg/day | during organogenesis |
| ETHYLENE GLYCOL   | Ingestion  | Some positive developmental data exist, but the data are not sufficient for classification | Mouse                   | LOAEL 750 mg/kg/day   | during organogenesis |
| ETHYLENE GLYCOL   | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 1,000 mg/kg/day | during organogenesis |
| ISOPROPYL ALCOHOL | Ingestion  | Some positive developmental data exist, but the data are not sufficient for                | Rat                     | NOAEL 400 mg/kg/day   | during organogenesis |



|                   |            |  |     |              |                  |
|-------------------|------------|--|-----|--------------|------------------|
|                   |            | classification   |     |              | s                |
| ISOPROPYL ALCOHOL | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | LOAEL 9 mg/l | during gestation |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name              | Route      | Target Organ(s)   | Value  | Species    | Test Result         | Exposure Duration      |
|-------------------|------------|---|--|------------|---------------------|------------------------|
| ETHYLENE GLYCOL   | Ingestion  | heart   nervous system   kidney and/or bladder   respiratory system | Causes damage to organs  | Human      | NOAEL Not available | poisoning and/or abuse |
| ETHYLENE GLYCOL   | Ingestion  | central nervous system depression                                   | May cause drowsiness or dizziness  | Human      | NOAEL Not available | poisoning and/or abuse |
| ETHYLENE GLYCOL   | Ingestion  | liver   | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available | poisoning and/or abuse |
| ISOPROPYL ALCOHOL | Inhalation | central nervous system depression                                   | May cause drowsiness or dizziness  | Human      | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL | Inhalation | respiratory irritation  | Some positive data exist, but the data are not sufficient for classification | Human      | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL | Inhalation | auditory system   | Some positive data exist, but the data are not sufficient for classification | Guinea pig | NOAEL 13.4 mg/l     | 24 hours               |
| ISOPROPYL ALCOHOL | Ingestion  | central nervous system depression                                   | May cause drowsiness or dizziness  | Human      | NOAEL Not available | poisoning and/or abuse |
| SODIUM HYDROXIDE  | Inhalation | respiratory irritation  | May cause respiratory irritation   | Human      | NOAEL Not available |                        |

**Specific Target Organ Toxicity - repeated exposure**

| Name              | Route      | Target Organ(s)   | Value  | Species                 | Test Result            | Exposure Duration |
|-------------------|------------|---|--|-------------------------|------------------------|-------------------|
| ETHYLENE GLYCOL   | Ingestion  | kidney and/or bladder   vascular system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 200 mg/kg/day    | 2 years           |
| ETHYLENE GLYCOL   | Ingestion  | heart   hematopoietic system   liver   immune system   muscles                    | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 1,000 mg/kg/day  | 2 years           |
| ETHYLENE GLYCOL   | Ingestion  | respiratory system  | Some positive data exist, but the data are not sufficient for classification | Mouse                   | NOAEL 12,000 mg/kg/day | 2 years           |
| ETHYLENE GLYCOL   | Ingestion  | skin   endocrine system   bone, teeth, nails, and/or hair   nervous system   eyes | All data are negative  | Multiple animal species | NOAEL 1,000 mg/kg/day  | 2 years           |
| ISOPROPYL ALCOHOL | Inhalation | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 12.3 mg/l        | 24 months         |
| ISOPROPYL ALCOHOL | Inhalation | nervous system  | All data are negative  | Rat                     | NOAEL 12 mg/l          | 13 weeks          |
| ISOPROPYL ALCOHOL | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 400 mg/kg/day    | 12 weeks          |

**Aspiration Hazard**

| Name | Value |
|------|-------|
|------|-------|

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations. Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information****15.1. US Federal Regulations**

Contact 3M for more information.

**311/312 Hazard Categories:**

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

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|--------------------------|-------------------------|-----------------------|
| O-PHENYLPHENOL           | 90-43-7                 | 4.75                  |
| ETHYLENE GLYCOL          | 107-21-1                | 1 - 5                 |

**FIFRA**

| <u><b>Status</b></u> | <u><b>Registration Number</b></u> |
|----------------------|-----------------------------------|
| Registered           | 39967-89-10350                    |

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER.** Corrosive.

Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or clothing. Avoid breathing spray mist.

#### PERSONAL PROTECTIVE EQUIPMENT [PPE]

Applicators and other handlers must wear: Coveralls over long-sleeved shirt and long pants, socks and chemical resistant footwear, goggles or face shield, and chemical resistant gloves (such as barrier laminate or butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, or viton at z 14 mils).

**USER SAFETY REQUIREMENTS:** Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### FIRST AID:

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** In case of an emergency call toll free CHEMTREC 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

**STORAGE AND DISPOSAL:** Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap empty container and put in trash.

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

This product complies with the New Zealand Hazardous Substances and New Organisms Act (1996).

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

|  |
|--|
| <b>This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.</b> |
|--|

## SECTION 16: Other information

#### NFPA Hazard Classification

**Health:** 3 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None  
**Acid/Base:** Alkaline

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 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® III) 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® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-5643-1 | <b>Version Number:</b>  | 2.00     |
| <b>Issue Date:</b>     | 09/09/14  | <b>Supersedes Date:</b> | 06/07/12 |

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS available directly from 3M

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**