

**Safety Data Sheet**

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|------------------------|------------|-------------------------|------------|
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**SECTION 1: Identification****1.1. Product identifier**

3M™ Marine High Strength Repair Filler PNs 46012, 46013, 46014

**Product Identification Numbers**

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| LB-K100-2688-3 | 60-4550-6998-3 | 60-4551-1092-8 | 60-9800-2720-9 | 60-9800-2721-7 |
| 60-9800-2722-5 | 60-9800-3314-0 | UU-0118-3421-3 | XS-0414-1522-4 |                |

**1.2. Recommended use and restrictions on use****Recommended use**

Marine Filler, Marine

**1.3. Supplier's details**

**Company:** 3M Canada Company  
**Division:** Automotive Aftermarket  
**Address:** 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577  
**E Mail:**

**1.4. Emergency telephone number**

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS) or Article Information Sheet (AIS) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

07-4142-1, 29-5993-0

Transport in accordance with applicable regulations.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE,

COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 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 product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 07-4142-1  | <b>Version number:</b>  | 18.00      |
| <b>Issue Date:</b>     | 2023/07/18 | <b>Supersedes Date:</b> | 2021/11/03 |

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Marine High Strength Repair Filler PN 46010 (6 fl. oz.); 46012 (pint); 46013 (quart); 46014 (gallon)

#### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| test 00        | LB-K100-3515-9 | LB-T100-0197-2 | LB-T100-0197-3 | LB-T100-0197-4 |
| LB-K100-0825-7 | LB-K100-1037-6 | JC-1700-2984-0 |                |                |

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

##### Intended Use

Marine

##### Specific Use

Marine Filler

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |  |
|-------------------|--|
| <b>Company:</b>   | 3M Canada Company  |
| <b>Division:</b>  | Automotive Aftermarket   |
| <b>Address:</b>   | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| <b>Telephone:</b> | (800) 364-3577   |
| <b>Website:</b>   | www.3M.ca  |

#### 1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Solid: Category 1.

Serious Eye Damage/Irritation: Category 2B.

Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.  
Specific Target Organ Toxicity (repeated exposure): Category 1.

## 2.2. Label elements

### Signal word

Danger

### Symbols

Flame | Exclamation mark | Health Hazard |

### Pictograms



### Hazard statements

Flammable solid.

Causes eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer.

Causes damage to organs: liver | sensory organs |

Causes damage to organs through prolonged or repeated exposure: respiratory system | sensory organs |

May cause damage to organs through prolonged or repeated exposure: liver |

### Precautionary statements

#### General:

Keep out of reach of children.

#### Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

#### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Call a POISON centre or doctor/physician if you feel unwell. In case of fire: Use a fire fighting agent suitable for metal fires such as dry powder to extinguish.

#### Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### Disposal:

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

## 2.3. Other hazards

None known.

34% of the mixture consists of ingredients of unknown acute oral toxicity.

34% of the mixture consists of ingredients of unknown acute dermal toxicity.

34% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient  | C.A.S. No.   | % by Wt                | Common Name   |
|---|--------------|------------------------|---|
| Inert Filler  | 65997-17-3   | 10 - 30                | Glass, oxide, chemicals   |
| Styrene Monomer                                     | 100-42-5     | 10 - 30 Trade Secret * | Benzene, ethenyl-   |
| Vinyl Ester Resin                                   | Trade Secret | 10 - 30                | Not Applicable  |
| Wollastonite  | 13983-17-0   | 7 - 13                 | Wollastonite (Ca(SiO <sub>3</sub> ))                                    |
| Polyester Resin                                     | Trade Secret | 5 - 10                 | Not Applicable  |
| Synthetic Crystalline-Free Silica Gel               | 112926-00-8  | 3 - 7                  | Silica gel, pptd., cryst.-free  |
| Polyester Polymer                                   | Trade Secret | 1 - 5                  | Not Applicable  |
| Synthetic amorphous silica, fumed, crystalline-free | 112945-52-5  | 1 - 5                  | Fumed amorphous silica, crystalline-free                                |
| Talc  | 14807-96-6   | 1 - 5 Trade Secret *   | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) |
| Fiber   | None         | 0.5 - 1.5              | Not Applicable  |
| Polyethylene  | 9002-88-4    | 0.5 - 1.5              | Ethene, homopolymer   |
| Titanium Dioxide                                    | 13463-67-7   | < 0.5                  | Titanium oxide (TiO <sub>2</sub> )                                      |
| Quartz Silica                                       | 14808-60-7   | 0 - 0.3                | Quartz (SiO <sub>2</sub> )  |

Fiber is a non-hazardous Trade Secret material according to WHMIS criteria.

Polyester Resin is a non-hazardous Trade Secret material according to WHMIS criteria.

Polyester Polymer is a non-hazardous Trade Secret material according to WHMIS criteria.

Vinyl Ester Resin is a non-hazardous Trade Secret material according to WHMIS criteria.

\*The actual concentration of this ingredient 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:

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### 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. If you feel unwell, get medical attention.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for metal fires such as dry powder to extinguish.

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

None inherent in this product.

### Hazardous Decomposition or By-Products

| <u>Substance</u>              | <u>Condition</u>  |
|-------------------------------|-------------------|
| Hydrocarbons                  | During Combustion |
| Carbon monoxide               | During Combustion |
| Carbon dioxide                | During Combustion |
| Toxic Vapor, Gas, Particulate | During Combustion |

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

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours 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.

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

Cover spill area with a fire-extinguishing foam. 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. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep container tightly closed to prevent loss of stabilizing materials. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

## 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 |
|------------------|------------|-------------------------|---|---------------------|
| Styrene Monomer  | 100-42-5   | ACGIH                   | TWA:10 ppm;STEL:20 ppm  |                     |
| Titanium Dioxide | 13463-67-7 | ACGIH                   | TWA(Respirable nanoscale particles):0.2 mg/m <sup>3</sup> ;TWA(Respirable finescale particles):2.5 mg/m <sup>3</sup>                |                     |
| Wollastonite     | 13983-17-0 | ACGIH                   | TWA(inhalable fraction):1 mg/m <sup>3</sup>   |                     |
| Talc             | 14807-96-6 | ACGIH                   | TWA(respirable fraction):2 mg/m <sup>3</sup>  |                     |
| Quartz Silica    | 14808-60-7 | ACGIH                   | TWA(respirable fraction):0.025 mg/m <sup>3</sup>  |                     |
| Inert Filler     | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m <sup>3</sup> ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m <sup>3</sup> |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

#### 8.2.2. Personal protective equipment (PPE)

##### 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:

Safety Glasses with side shields

Indirect Vented Goggles

##### Skin/hand protection

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: Fluoroelastomer

Polyvinyl Alcohol (PVA)

Polymer laminate

## Respiratory protection

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 vapours 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

|   |   |
|---|---|
| Physical state                                | Solid   |
| Specific Physical Form:                       | Paste   |
| Colour  | Gray-Brown  |
| Odour   | Pungent Styrene   |
| Odour threshold                               | No Data Available                                       |
| pH  | No Data Available                                       |
| Melting point/Freezing point                  | No Data Available                                       |
| Boiling point                                 | 145 °C [Details:CONDITIONS: (Styrene)]                  |
| Flash Point                                   | 31.1 °C [Test Method:Closed Cup] [Details:MIT data]     |
| Evaporation rate                              | No Data Available                                       |
| Flammability (solid, gas)                     | Flammable Solid: Category 1.                            |
| Flammable Limits(LEL)                         | 1.1 % [Details:based on styrene]                        |
| Flammable Limits(UEL)                         | 6.1 % [Details:based on styrene]                        |
| Vapour Pressure                               | 573.3 Pa [Details:CONDITIONS: at 20 C (Styrene)]        |
| Vapour Density and/or Relative Vapour Density | 3.6 [Ref Std:AIR=1] [Details:CONDITIONS: (Styrene)]     |
| Density                                       | 1.3 g/ml  |
| Relative density                              | 1.3 [Ref Std:WATER=1]                                   |
| Water solubility                              | Nil   |
| Solubility- non-water                         | No Data Available                                       |
| Partition coefficient: n-octanol/ water       | No Data Available                                       |
| Autoignition temperature                      | No Data Available                                       |
| Decomposition temperature                     | No Data Available                                       |
| Viscosity/Kinematic Viscosity                 | 740,000 - 999,999 mPa-s                                 |
| Volatile Organic Compounds                    | 361 g/l [Test Method:calculated SCAQMD rule 443.1]      |
| Volatile Organic Compounds                    | 27.8 % weight [Test Method:calculated per CARB title 2] |
| Percent volatile                              | 27.7 % weight   |
| VOC Less H2O & Exempt Solvents                | 361 g/l [Test Method:calculated SCAQMD rule 443.1]      |
| Solids Content                                | 35.6 % weight   |

## 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. May become unstable at increased temperatures and/or pressure.

### 10.3. Possibility of hazardous reactions



Hazardous polymerization will not occur.

#### **10.4. Conditions to avoid**

Heat  
Sparks and/or flames

#### **10.5. Incompatible materials**

Strong acids  
Strong bases  
Strong oxidizing agents  
Alkali and alkaline earth metals

#### **10.6. Hazardous decomposition products**

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## **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:**

May be harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

##### **Skin Contact:**

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

##### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

##### **Ingestion:**

May be harmful if swallowed. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

#### **Additional Health Effects:**

##### **Single exposure may cause target organ effects:**

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

##### **Prolonged or repeated exposure may cause target organ effects:**

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver

Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Prolonged or repeated exposure by inhalation may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| <b>Ingredient</b>   | <b>CAS No.</b> | <b>Class Description</b>       | <b>Regulation</b>                           |
|---|----------------|--------------------------------|---|
| Silica, Crystalline (Respirable Size)                           | 14808-60-7     | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Talc containing asbestiform fibres                              | 14807-96-6     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Styrene   | 100-42-5       | Grp. 2A: Probable human carc.  | International Agency for Research on Cancer |
| Styrene   | 100-42-5       | Anticipated human carcinogen   | National Toxicology Program Carcinogens     |
| Titanium dioxide  | 13463-67-7     | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |

### 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

| <b>Name</b>   | <b>Route</b>                   | <b>Species</b> | <b>Value</b>  |
|---|--------------------------------|----------------|---|
| Overall product                                     | Dermal                         |                | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                                     | Inhalation-Vapor(4 hr)         |                | No data available; calculated ATE >20 - =50 mg/l        |
| Overall product                                     | Ingestion                      |                | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Styrene Monomer                                     | Dermal                         | Rat            | LD50 > 2,000 mg/kg                                      |
| Styrene Monomer                                     | Inhalation-Vapor (4 hours)     | Rat            | LC50 11.8 mg/l  |
| Styrene Monomer                                     | Ingestion                      | Rat            | LD50 5,000 mg/kg  |
| Inert Filler  | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Inert Filler  | Ingestion                      |                | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Wollastonite  | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Wollastonite  | Ingestion                      |                | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Synthetic Crystalline-Free Silica Gel               | Dermal                         | Rabbit         | LD50 > 5,000 mg/kg                                      |
| Synthetic Crystalline-Free Silica Gel               | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 > 0.691 mg/l                                       |
| Synthetic Crystalline-Free Silica Gel               | Ingestion                      | Rat            | LD50 > 5,110 mg/kg                                      |
| Polyester Polymer                                   | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Polyester Polymer                                   | Ingestion                      |                | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Talc  | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Talc  | Ingestion                      |                | LD50 estimated to be > 5,000 mg/kg                      |
| Synthetic amorphous silica, fumed, crystalline-free | Dermal                         | Rabbit         | LD50 > 5,000 mg/kg                                      |
| Synthetic amorphous silica, fumed, crystalline-free | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 > 0.691 mg/l                                       |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion                      | Rat            | LD50 > 5,110 mg/kg                                      |
| Polyethylene  | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Polyethylene  | Ingestion                      | Rat            | LD50 > 2,000 mg/kg                                      |
| Quartz Silica                                       | Dermal                         |                | LD50 estimated to be > 5,000 mg/kg                      |
| Quartz Silica                                       | Ingestion                      |                | LD50 estimated to be > 5,000 mg/kg                      |
| Titanium Dioxide                                    | Dermal                         | Rabbit         | LD50 > 10,000 mg/kg                                     |
| Titanium Dioxide                                    | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 > 6.82 mg/l  |

|                  |           |     |                     |
|------------------|-----------|-----|---------------------|
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
|------------------|-----------|-----|---------------------|

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Styrene Monomer                                     | Professional judgement | Mild irritant             |
| Inert Filler  | Professional judgement | No significant irritation |
| Synthetic Crystalline-Free Silica Gel               | Rabbit                 | No significant irritation |
| Talc  | Rabbit                 | No significant irritation |
| Synthetic amorphous silica, fumed, crystalline-free | Rabbit                 | No significant irritation |
| Polyethylene  | Professional judgement | No significant irritation |
| Quartz Silica                                       | Professional judgement | No significant irritation |
| Titanium Dioxide                                    | Rabbit                 | No significant irritation |

### Serious Eye Damage/Irritation

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Styrene Monomer                                     | Professional judgement | Moderate irritant         |
| Inert Filler  | Professional judgement | No significant irritation |
| Synthetic Crystalline-Free Silica Gel               | Rabbit                 | No significant irritation |
| Talc  | Rabbit                 | No significant irritation |
| Synthetic amorphous silica, fumed, crystalline-free | Rabbit                 | No significant irritation |
| Titanium Dioxide                                    | Rabbit                 | No significant irritation |

### Skin Sensitization

| Name  | Species          | Value          |
|---|------------------|----------------|
| Styrene Monomer                                     | Guinea pig       | Not classified |
| Synthetic Crystalline-Free Silica Gel               | Human and animal | Not classified |
| Synthetic amorphous silica, fumed, crystalline-free | Human and animal | Not classified |
| Titanium Dioxide                                    | Human and animal | Not classified |

### Respiratory Sensitization

| Name | Species | Value          |
|------|---------|----------------|
| Talc | Human   | Not classified |

### Germ Cell Mutagenicity

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

|   |          |  |
|---|----------|--|
|   |          |  |
| Styrene Monomer                                     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Styrene Monomer                                     | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Inert Filler  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Wollastonite  | In Vitro | Not mutagenic  |
| Synthetic Crystalline-Free Silica Gel               | In Vitro | Not mutagenic  |
| Talc  | In Vitro | Not mutagenic  |
| Talc  | In vivo  | Not mutagenic  |
| Synthetic amorphous silica, fumed, crystalline-free | In Vitro | Not mutagenic  |
| Quartz Silica                                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica                                       | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide                                    | In Vitro | Not mutagenic  |
| Titanium Dioxide                                    | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name  | Route         | Species                 | Value  |
|---|---------------|-------------------------|--|
| Styrene Monomer                                     | Ingestion     | Mouse                   | Carcinogenic   |
| Styrene Monomer                                     | Inhalation    | Human and animal        | Carcinogenic   |
| Inert Filler  | Inhalation    | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Synthetic Crystalline-Free Silica Gel               | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Talc  | Inhalation    | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Synthetic amorphous silica, fumed, crystalline-free | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Polyethylene  | Not Specified | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica                                       | Inhalation    | Human and animal        | Carcinogenic   |
| Titanium Dioxide                                    | Ingestion     | Multiple animal species | Not carcinogenic   |
| Titanium Dioxide                                    | Inhalation    | Rat                     | Carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                                  | Route      | Value                                  | Species                 | Test result         | Exposure Duration |
|---------------------------------------|------------|--|-------------------------|---------------------|-------------------|
| Styrene Monomer                       | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 21 mg/kg/day  | 3 generation      |
| Styrene Monomer                       | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 2.1 mg/l      | 2 generation      |
| Styrene Monomer                       | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 2.1 mg/l      | 2 generation      |
| Styrene Monomer                       | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 400 mg/kg/day | 60 days           |
| Styrene Monomer                       | Ingestion  | Not classified for development         | Rat                     | NOAEL 400 mg/kg/day | during gestation  |
| Styrene Monomer                       | Inhalation | Not classified for development         | Multiple animal species | NOAEL 2.1 mg/l      | during gestation  |
| Synthetic Crystalline-Free Silica Gel | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 509 mg/kg/day | 1 generation      |

|   |           |  |     |                       |                      |
|---|-----------|--|-----|-----------------------|----------------------|
| Synthetic Crystalline-Free Silica Gel               | Ingestion | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation         |
| Synthetic Crystalline-Free Silica Gel               | Ingestion | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Talc  | Ingestion | Not classified for development         | Rat | NOAEL 1,600 mg/kg     | during organogenesis |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation         |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation         |
| Synthetic amorphous silica, fumed, crystalline-free | Ingestion | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name            | Route      | Target Organ(s)                   | Value                             | Species                 | Test result         | Exposure Duration     |
|-----------------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------------|-----------------------|
| Styrene Monomer | Inhalation | auditory system                   | Causes damage to organs           | Multiple animal species | LOAEL 4.3 mg/l      | not available         |
| Styrene Monomer | Inhalation | liver                             | Causes damage to organs           | Mouse                   | LOAEL 2.1 mg/l      | not available         |
| Styrene Monomer | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human                   | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | respiratory irritation            | May cause respiratory irritation  | Human and animal        | NOAEL Not available |                       |
| Styrene Monomer | Inhalation | endocrine system                  | Not classified                    | Rat                     | NOAEL Not available | not available         |
| Styrene Monomer | Inhalation | kidney and/or bladder             | Not classified                    | Multiple animal species | NOAEL 2.1 mg/l      | not available         |

### Specific Target Organ Toxicity - repeated exposure

| Name            | Route      | Target Organ(s)  | Value  | Species                 | Test result         | Exposure Duration     |
|-----------------|------------|--|--|-------------------------|---------------------|-----------------------|
| Styrene Monomer | Inhalation | auditory system  | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL not available | occupational exposure |
| Styrene Monomer | Inhalation | eyes   | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Styrene Monomer | Inhalation | liver  | May cause damage to organs though prolonged or repeated exposure             | Mouse                   | LOAEL 0.85 mg/l     | 13 weeks              |
| Styrene Monomer | Inhalation | nervous system   | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 1.1 mg/l      | not available         |
| Styrene Monomer | Inhalation | hematopoietic system   | Not classified   | Rat                     | NOAEL 0.85 mg/l     | 7 days                |
| Styrene Monomer | Inhalation | endocrine system   | Not classified   | Rat                     | NOAEL 0.6 mg/l      | 10 days               |
| Styrene Monomer | Inhalation | respiratory system   | Not classified   | Multiple animal species | LOAEL 0.09 mg/l     | not available         |
| Styrene Monomer | Inhalation | heart   gastrointestinal tract   bone, teeth, nails, and/or hair   muscles   kidney and/or bladder | Not classified   | Multiple animal species | NOAEL 4.3 mg/l      | 2 years               |
| Styrene Monomer | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 500 mg/kg/day | 8 weeks               |

|   |            |   |  |                         |                     |                       |
|---|------------|---|--|-------------------------|---------------------|-----------------------|
| Styrene Monomer                                     | Ingestion  | immune system                           | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | not available         |
| Styrene Monomer                                     | Ingestion  | liver   kidney and/or bladder           | Not classified   | Rat                     | NOAEL 677 mg/kg/day | 6 months              |
| Styrene Monomer                                     | Ingestion  | hematopoietic system                    | Not classified   | Dog                     | NOAEL 600 mg/kg/day | 470 days              |
| Styrene Monomer                                     | Ingestion  | heart   respiratory system              | Not classified   | Rat                     | NOAEL 35 mg/kg/day  | 105 weeks             |
| Inert Filler  | Inhalation | respiratory system                      | Not classified   | Human                   | NOAEL not available | occupational exposure |
| Wollastonite  | Inhalation | respiratory system                      | Not classified   | Human                   | NOAEL Not available | occupational exposure |
| Wollastonite  | Inhalation | pulmonary fibrosis                      | Not classified   | Human and animal        | NOAEL Not available |                       |
| Synthetic Crystalline-Free Silica Gel               | Inhalation | respiratory system   silicosis          | Not classified   | Human                   | NOAEL Not available | occupational exposure |
| Talc  | Inhalation | pneumoconiosis                          | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Talc  | Inhalation | pulmonary fibrosis   respiratory system | Not classified   | Rat                     | NOAEL 18 mg/m3      | 113 weeks             |
| Synthetic amorphous silica, fumed, crystalline-free | Inhalation | respiratory system   silicosis          | Not classified   | Human                   | NOAEL Not available | occupational exposure |
| Quartz Silica                                       | Inhalation | silicosis                               | Causes damage to organs through prolonged or repeated exposure               | Human                   | NOAEL Not available | occupational exposure |
| Titanium Dioxide                                    | Inhalation | respiratory system                      | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 0.01 mg/l     | 2 years               |
| Titanium Dioxide                                    | Inhalation | pulmonary fibrosis                      | Not classified   | Human                   | NOAEL Not available | occupational exposure |

#### Aspiration Hazard

| Name            | Value             |
|-----------------|-------------------|
| Styrene Monomer | Aspiration hazard |

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

No data available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Incinerate uncured product in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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.

## 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. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global inventory status**

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**SECTION 16: Other information**

**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.**

**Health: 2 Flammability: 3 Instability: 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.

|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cream Hardener (Red, White & Blue)

##### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| LB-K100-0965-7 | LB-K100-0965-8 | LB-K100-0965-9 | LB-K100-0966-0 | LB-K100-0966-1 |
| LB-K100-0966-2 | LB-K100-0966-3 | LB-K100-1035-6 | LB-K100-1045-4 | LB-K100-1286-7 |
| LB-K100-2043-9 | LB-K100-2044-1 | 34-8720-4551-2 | 34-8723-2151-7 | 34-8723-6649-6 |
| 41-0003-6674-4 | 41-0003-6682-7 | 41-0003-6685-0 | 41-0003-6686-8 | 41-0003-6687-6 |
| 41-0003-7901-0 | 41-0003-7903-6 | 41-0003-7904-4 | 41-0003-7922-6 | 41-0003-7928-3 |
| 41-0003-7930-9 | 41-0003-7931-7 | 41-0003-7932-5 | 41-0003-7933-3 | 41-0003-7935-8 |
| 41-0003-7987-9 | 41-0003-8059-6 | 41-0003-8072-9 | 41-0003-8073-7 | 41-0003-8074-5 |
| 41-0003-8146-1 | 60-4550-6614-6 | 60-4550-6981-9 | 60-4550-6982-7 | 60-4550-8123-6 |
| 60-4551-0388-1 |                |                |                |                |

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

##### Intended Use

Automotive

##### Specific Use

hardener for body fillers & glazes

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |  |
|-------------------|--|
| <b>Company:</b>   | 3M Canada Company  |
| <b>Division:</b>  | Automotive Aftermarket   |
| <b>Address:</b>   | 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1 |
| <b>Telephone:</b> | (800) 364-3577   |
| <b>Website:</b>   | www.3M.ca  |

#### 1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666



## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

Organic Peroxide: Type E.

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1B.

Specific Target Organ Toxicity (single exposure): Category 1.

### 2.2. Label elements

#### Signal word

Danger

#### Symbols

Flame | Exclamation mark | Health Hazard |

#### Pictograms



#### Hazard statements

Heating may cause a fire.

Causes serious eye irritation. May cause an allergic skin reaction.

Causes damage to organs: cardiovascular system | nervous system | kidney/urinary tract | respiratory system |

#### Precautionary statements

##### General:

Keep out of reach of children.

##### Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

##### Response:

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

Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and

water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before

reuse. IF exposed or concerned: Call a POISON CENTRE or doctor/physician. In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

##### Storage:

Protect from sunlight. Store in a well-ventilated place. Store at temperatures not exceeding 32C/90F. Keep cool. Store locked up. Store separately.

##### Disposal:

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

##### Notes to Physician:

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

**2.3. Other hazards**

None known.

17% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

| <b>Ingredient</b>                                    | <b>C.A.S. No.</b> | <b>% by Wt</b>         | <b>Common Name</b>  |
|--|-------------------|------------------------|---|
| Benzoyl Peroxide                                     | 94-36-0           | 30 - 60 Trade Secret * | Peroxide, dibenzoyl   |
| Benzoic Acid, C9-11-Branched Alkyl Esters            | 131298-44-7       | 10 - 30                | Benzoic acid, C9-11-branched alkyl esters                             |
| Water  | 7732-18-5         | 10 - 30                | Water   |
| Calcium Sulfate                                      | 7778-18-9         | 1 - 10                 | Sulfuric acid, calcium salt (1:1)                                     |
| Zinc Stearate  | 557-05-1          | 1 - 10                 | Octadecanoic acid, zinc salt  |
| Ethylene Glycol                                      | 107-21-1          | 0 - 7.5                | 1,2-Ethanediol  |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )         | 1309-37-1         | <= 5                   | Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )                          |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | 9038-95-3         | <= 5                   | Oxirane, methyl-, polymer with oxirane, monobutyl ether               |
| Ferric Ammonium Ferrocyanide                         | 25869-00-5        | <= 1                   | Ferrate(4-), hexakis(cyano-C)-, ammonium iron(3+) (1:1:1), (OC-6-11)- |
| Ferric Ferrocyanide                                  | 14038-43-8        | <= 1                   | Ferrate(4-), hexakis(cyano-C)-, iron(3+) (3:4), (OC-6-11)-            |

\*The actual concentration of this ingredient 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 wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details.

**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**

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode. Part of the oxygen for combustion is supplied by the peroxide itself.

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

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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.

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

Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice.

Warning! A motor could be an ignition source and could cause flammable gases or vapours 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**

Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. 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.

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

Keep container tightly closed. Protect from sunlight. Store away from heat. Store at temperatures not exceeding 32C/90F. Keep cool. Keep only in original container. Store away from other materials. Keep/store away from clothing and other combustible materials.

**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.

| <b>Ingredient</b> | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>      | <b>Additional Comments</b> |
|-------------------|-------------------|---------------|------------------------|----------------------------|
| Ethylene Glycol   | 107-21-1          | ACGIH         | TWA(Vapor fraction):25 |                            |

|                    |           |       |  |  |
|--------------------|-----------|-------|--|--|
|                    |           |       | ppm;STEL(Vapor fraction):50<br>ppm;STEL(Inhalable<br>aerosol):10 mg/m3 |  |
| Iron Oxide (Fe2O3) | 1309-37-1 | ACGIH | TWA(respirable fraction):5<br>mg/m3                                    |  |
| Calcium Sulfate    | 7778-18-9 | ACGIH | TWA(inhalable fraction):10<br>mg/m3                                    |  |
| Benzoyl Peroxide   | 94-36-0   | ACGIH | TWA:5 mg/m3  |  |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide ventilation adequate to maintain dust concentration below minimum explosive concentrations. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### 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:

Indirect Vented Goggles

#### Skin/hand protection

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: 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. 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 - polymer laminate

#### Respiratory protection

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 vapours 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

|                |       |
|----------------|-------|
| Physical state | Solid |
|----------------|-------|

|  |   |
|--|---|
| <b>Specific Physical Form:</b>                       | Paste   |
| <b>Colour</b>  | Red   |
| <b>Odour</b>   | Slight Ester  |
| <b>Odour threshold</b>                               | <i>No Data Available</i>  |
| <b>pH</b>  | <i>No Data Available</i>  |
| <b>Melting point/Freezing point</b>                  | <i>No Data Available</i>  |
| <b>Boiling point</b>                                 | <i>No Data Available</i>  |
| <b>Flash Point</b>                                   | 111 °C [ <i>Test Method</i> :Estimated]                         |
| <b>Evaporation rate</b>                              | <i>No Data Available</i>  |
| <b>Flammability (solid, gas)</b>                     | Organic Peroxide: Type E.                                       |
| <b>Flammable Limits(LEL)</b>                         | <i>Not Applicable</i>   |
| <b>Flammable Limits(UEL)</b>                         | <i>Not Applicable</i>   |
| <b>Vapour Pressure</b>                               | <i>Not Applicable</i>   |
| <b>Vapour Density and/or Relative Vapour Density</b> | <i>Not Applicable</i>   |
| <b>Density</b>                                       | 1.2 g/cm3   |
| <b>Relative density</b>                              | 1.2 [ @ 25 °C ] [ <i>Ref Std</i> :WATER=1]                      |
| <b>Water solubility</b>                              | Negligible  |
| <b>Solubility- non-water</b>                         | <i>No Data Available</i>  |
| <b>Partition coefficient: n-octanol/ water</b>       | <i>No Data Available</i>  |
| <b>Autoignition temperature</b>                      | <i>No Data Available</i>  |
| <b>Decomposition temperature</b>                     | <i>No Data Available</i>  |
| <b>Viscosity/Kinematic Viscosity</b>                 | <i>No Data Available</i>  |
| <b>Volatile Organic Compounds</b>                    | 0 - 90 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]  |
| <b>Volatile Organic Compounds</b>                    | 0 % weight [ <i>Test Method</i> :calculated per CARB title 2]   |
| <b>Percent volatile</b>                              | 21 - 28.5 %   |
| <b>VOC Less H2O &amp; Exempt Solvents</b>            | 0 - 121 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |
| <b>Molecular weight</b>                              | <i>Not Applicable</i>   |

## 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. Stable unless exposed to heat, flames and drying conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

Accelerators

### 10.6. Hazardous decomposition products

| <u>Substance</u>              | <u>Condition</u> |
|-------------------------------|------------------|
| Carbon monoxide               | Not Specified    |
| Carbon dioxide                | Not Specified    |
| Toxic Vapor, Gas, Particulate | 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:

May be harmful in contact with skin. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye Contact:

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

##### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

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 coloured 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 >2,000 - =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          |
| Benzoyl Peroxide                          | Dermal                         |         | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Benzoyl Peroxide                          | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 24.3 mg/l  |
| Benzoyl Peroxide                          | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                      |
| Benzoic Acid, C9-11-Branched Alkyl Esters | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                                      |

**3M™ Cream Hardener (Red, White & Blue)**

|  |                                |                       |                                    |
|--|--------------------------------|-----------------------|------------------------------------|
| Benzoic Acid, C9-11-Branched Alkyl Esters            | Inhalation-Dust/Mist (4 hours) | Rat                   | LC50 > 5 mg/l                      |
| Benzoic Acid, C9-11-Branched Alkyl Esters            | Ingestion                      | Rat                   | LD50 > 5,000 mg/kg                 |
| Calcium Sulfate                                      | Dermal                         | Professional judgment | LD50 estimated to be > 5,000 mg/kg |
| Calcium Sulfate                                      | Ingestion                      | Rat                   | LD50 > 5,000 mg/kg                 |
| Zinc Stearate  | Dermal                         | Rabbit                | LD50 > 2,000 mg/kg                 |
| Zinc Stearate  | Inhalation-Dust/Mist (4 hours) | Rat                   | LC50 > 50 mg/l                     |
| Zinc Stearate  | 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                        |
| Iron Oxide (Fe2O3)                                   | Dermal                         | Not available         | LD50 3,100 mg/kg                   |
| Iron Oxide (Fe2O3)                                   | Ingestion                      | Not available         | LD50 3,700 mg/kg                   |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Dermal                         | Rabbit                | LD50 > 16,960 mg/kg                |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation-Dust/Mist (4 hours) | Rat                   | LC50 > 5 mg/l                      |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion                      | Rat                   | LD50 4,240 mg/kg                   |
| Ferric Ferrocyanide                                  | Dermal                         | Professional judgment | LD50 estimated to be > 5,000 mg/kg |
| Ferric Ammonium Ferrocyanide                         | Dermal                         | Rat                   | LD50 > 2,000 mg/kg                 |
| Ferric Ammonium Ferrocyanide                         | Ingestion                      | Rat                   | LD50 > 2,000 mg/kg                 |
| Ferric Ferrocyanide                                  | Ingestion                      | similar compounds     | LD50 > 2,000 mg/kg                 |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species           | Value                     |
|--|-------------------|---------------------------|
| Benzoyl Peroxide                                     | Rabbit            | Minimal irritation        |
| Zinc Stearate  | Rabbit            | No significant irritation |
| Ethylene Glycol                                      | Rabbit            | Minimal irritation        |
| Iron Oxide (Fe2O3)                                   | Rabbit            | No significant irritation |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Rabbit            | Minimal irritation        |
| Ferric Ammonium Ferrocyanide                         | Rabbit            | No significant irritation |
| Ferric Ferrocyanide                                  | similar compounds | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species           | Value                     |
|--|-------------------|---------------------------|
| Benzoyl Peroxide                                     | Rabbit            | Severe irritant           |
| Zinc Stearate  | Rabbit            | No significant irritation |
| Ethylene Glycol                                      | Rabbit            | Mild irritant             |
| Iron Oxide (Fe2O3)                                   | Rabbit            | No significant irritation |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Rabbit            | No significant irritation |
| Ferric Ammonium Ferrocyanide                         | Rabbit            | Mild irritant             |
| Ferric Ferrocyanide                                  | similar compounds | No significant irritation |

**Skin Sensitization**

| Name                         | Species           | Value          |
|------------------------------|-------------------|----------------|
| Benzoyl Peroxide             | Guinea pig        | Sensitizing    |
| Zinc Stearate                | Human             | Not classified |
| Ethylene Glycol              | Human             | Not classified |
| Iron Oxide (FE2O3)           | Human             | Not classified |
| Ferric Ammonium Ferrocyanide | Mouse             | Not classified |
| Ferric Ferrocyanide          | similar compounds | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                         | Route    | Value         |
|------------------------------|----------|---------------|
| Benzoyl Peroxide             | In Vitro | Not mutagenic |
| Benzoyl Peroxide             | In vivo  | Not mutagenic |
| Zinc Stearate                | In Vitro | Not mutagenic |
| Ethylene Glycol              | In Vitro | Not mutagenic |
| Ethylene Glycol              | In vivo  | Not mutagenic |
| Iron Oxide (FE2O3)           | In Vitro | Not mutagenic |
| Ferric Ammonium Ferrocyanide | In Vitro | Not mutagenic |
| Ferric Ferrocyanide          | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name   | Route      | Species                 | Value  |
|--|------------|-------------------------|--|
| Benzoyl Peroxide                                     | Ingestion  | Multiple animal species | Not carcinogenic   |
| Benzoyl Peroxide                                     | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Ethylene Glycol                                      | Ingestion  | Multiple animal species | Not carcinogenic   |
| Iron Oxide (FE2O3)                                   | Inhalation | Human                   | Some positive data exist, but the data are not sufficient for classification |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion  | Rat                     | Not carcinogenic   |

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

| Name             | Route      | Value                                  | Species | Test result           | Exposure Duration            |
|------------------|------------|--|---------|-----------------------|------------------------------|
| Benzoyl Peroxide | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating & during gestation |
| Benzoyl Peroxide | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 500 mg/kg/day   | premating & during gestation |
| Benzoyl Peroxide | Ingestion  | Not classified for development         | Rat     | NOAEL 500 mg/kg/day   | premating & during gestation |
| Ethylene Glycol  | Dermal     | Not classified for development         | Mouse   | NOAEL 3,549 mg/kg/day | during organogenesis         |
| Ethylene Glycol  | Ingestion  | Not classified for development         | Mouse   | LOAEL 750 mg/kg/day   | during organogenesis         |
| Ethylene Glycol  | Inhalation | Not classified for development         | Mouse   | NOAEL 1,000 mg/kg/day | during organogenesis         |



**3M™ Cream Hardener (Red, White & Blue)**

|  |            |                                      |     |              |         |
|--|------------|--------------------------------------|-----|--------------|---------|
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | Not classified for male reproduction | Rat | NOAEL 1 mg/l | 2 weeks |
|--|------------|--------------------------------------|-----|--------------|---------|

**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   | Not classified                    | Human   | NOAEL Not available | poisoning and/or abuse |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | nervous system  | Not classified                    | Rat     | NOAEL Not available |                        |

**Specific Target Organ Toxicity - repeated exposure**

| Name   | Route      | Target Organ(s)   | Value  | Species                 | Test result            | Exposure Duration     |
|--|------------|---|--|-------------------------|------------------------|-----------------------|
| Zinc Stearate  | Ingestion  | heart   endocrine system   gastrointestinal tract   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day  | 28 days               |
| Ethylene Glycol                                      | Ingestion  | kidney and/or bladder   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 200 mg/kg/day    | 2 years               |
| Ethylene Glycol                                      | Ingestion  | vascular system   | Not classified   | Rat                     | NOAEL 200 mg/kg/day    | 2 years               |
| Ethylene Glycol                                      | Ingestion  | heart   hematopoietic system   liver   immune system   muscles  | Not classified   | Rat                     | NOAEL 1,000 mg/kg/day  | 2 years               |
| Ethylene Glycol                                      | Ingestion  | respiratory system  | Not classified   | Mouse                   | NOAEL 12,000 mg/kg/day | 2 years               |
| Ethylene Glycol                                      | Ingestion  | skin   endocrine system   bone, teeth, nails, and/or hair   nervous system   eyes   | Not classified   | Multiple animal species | NOAEL 1,000 mg/kg/day  | 2 years               |
| Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )         | Inhalation | pulmonary fibrosis   pneumoconiosis   | Not classified   | Human                   | NOAEL Not available    | occupational exposure |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | endocrine system   hematopoietic system   liver   nervous system  | Not classified   | Rat                     | NOAEL 1 mg/l           | 2 weeks               |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | kidney and/or bladder   | Not classified   | Rat                     | NOAEL 0.005 mg/l       | 2 weeks               |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | respiratory system  | Not classified   | Rat                     | LOAEL 0.001 mg/l       | 2 weeks               |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Inhalation | heart   | Not classified   | Rat                     | NOAEL 0.5 mg/l         | 2 weeks               |

**3M™ Cream Hardener (Red, White & Blue)**

|  |           |   |  |     |                       |         |
|--|-----------|---|--|-----|-----------------------|---------|
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | liver   kidney and/or bladder                 | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 145 mg/kg/day   | 90 days |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | hematopoietic system                          | Not classified   | Rat | NOAEL 500 mg/kg/day   | 2 years |
| Oxirane, Polymer with Methyloxirane, Monobutyl Ether | Ingestion | heart   endocrine system   respiratory system | Not classified   | Rat | NOAEL 3,770 mg/kg/day | 90 days |

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**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**

No data available.

**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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

**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. Safety, health and environmental regulations/legislation specific for the substance or mixture****Global inventory status**

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**SECTION 16: Other information**

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.

**Health:** 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** Oxidizer

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:** 4 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

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

|                        |            |                         |            |
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**3M Canada SDSs are available at [www.3M.ca](http://www.3M.ca)**