

# 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<sup>TM</sup> Dyneon<sup>TM</sup> Fluoroelastomer FE 5641Q

**Product Identification Numbers** 

LB-F100-2603-2 41-2860-2123-7 98-0211-7986-0 JF-1000-4311-2 ZF-0002-1524-2

# 1.2. Recommended use and restrictions on use

#### **Intended Use**

Fluoroelastomer

## Restrictions on use

Not applicable

#### 1.3. Supplier's details

Company: 3M Canada Company
Division: Advanced Materials Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577 **Website:** 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

Serious Eye Damage/Irritation: Category 2A.

Skin Sensitizer: Category 1A. Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

#### Signal word

Danger

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# **Symbols**

Exclamation mark | Health Hazard |

**Pictograms** 





#### Hazard statements

Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child.

## **Precautionary statements**

#### **Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves and eye/face protection. 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: Get medical advice/attention.

### Storage:

Store locked up.

# Disposal:

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

## 2.3. Other hazards

May cause thermal burns. vapours liberated during processing may be hazardous if inhaled. Eye, nose, throat and lung irritation can occur from such vapours.

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

This material is a mixture.

| Ingredient                        | C.A.S. No.  | % by Wt                  | Common Name                                |
|-----------------------------------|-------------|--------------------------|--|
| Vinylidene Fluoride -             | 9011-17-0   | 95 - 99                  | 1-Propene, 1,1,2,3,3,3-hexafluoro-,        |
| Hexafluoropropylene Polymer       |             |                          | polymer with 1,1-difluoroethene            |
| Bisphenol AF                      | 1478-61-1   | 1 - 5 Trade Secret *     | Phenol, 4,4'-[2,2,2-trifluoro-1-           |
|                                   |             |                          | (trifluoromethyl)ethylidene]bis-           |
| Phenol, 4,4'-[2,2,2-trifluoro-1-  | 921213-47-0 | 0.1 - 1 Trade Secret *   | Phenol, 4,4'-[2,2,2-trifluoro-1-           |
| (trifluoromethyl)ethylidene]bis-, |             |                          | (trifluoromethyl)ethylidene]bis-, reaction |
| reaction products with benzene,   |             |                          | products with benzene, chlorine and sulfur |
| chlorine and sulfur chloride      |             |                          | chloride (S2Cl2)                           |
| (S2Cl2)                           |             |                          |  |
| 4,4'-                             | 75768-65-9  | 0.1 - 0.9 Trade Secret * | Phosphonium, triphenyl(phenylmethyl)-,     |
| (HEXAFLUOROISOPROPYLI             |             |                          | salt with 4,4'-[2,2,2-trifluoro-1-         |
| DENE)DIPHENOL                     |             |                          | (trifluoromethyl)ethylidene ]bis[phenol]   |
| BENZYLTRIPHENYLPHOSP              |             |                          | (1:1)                                      |

# 3M<sup>TM</sup> Dyneon<sup>TM</sup> Fluoroelastomer FE 5641Q

| HONIUM SALT (1:1) |  |  |
|-------------------|--|--|

<sup>\*</sup>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

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

Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

#### **Eve Contact:**

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate 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).

# 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 ordinary combustible material such as water or foam to extinguish.

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

Exposure to extreme heat can give rise to thermal decomposition.

# 5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, 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. 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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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

Collect as much of the spilled material as possible. 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 breathe thermal decomposition products. Avoid skin contact with hot material. Store work clothes separately from other clothing, food and tobacco products. Do not handle until all safety precautions have been read and understood. 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. Wash contaminated clothing before reuse. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Use personal protective equipment (gloves, respirators, etc.) as required.

## 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

# Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

# 8.2. Exposure controls

## 8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. Local exhaust required above 400 C. 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:

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: 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:

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

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.

## Thermal hazards

Wear heat insulating gloves - Wear heat insulating gloves, indirect vented goggles, and a full face shield when handling hot material to prevent thermal burns.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

| Solid                 |
|-----------------------|
| Solid Block or Slab   |
| Straw, White          |
| Odourless             |
| No Data Available     |
| Not Applicable        |
| Not Applicable        |
| Not Applicable        |
| No flash point        |
| No Data Available     |
| Not Classified        |
| Not Applicable        |
| Not Applicable        |
| Not Applicable        |
| Not Applicable        |
| 1.8 g/cm3             |
| 1.8 [Ref Std:WATER=1] |
| Negligible            |
| No Data Available     |
| No Data Available     |
| Not Applicable        |
| No Data Available     |
| Not Applicable        |
| No Data Available     |
|                       |

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

## 10.2. Chemical stability

Stable.

# 10.3. Possibility of hazardous reactions

## 3M<sup>TM</sup> Dyneon<sup>TM</sup> Fluoroelastomer FE 5641Q

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Al or Mg powder and high/shear temperature conditions

# 10.6. Hazardous decomposition products

| <u>Substance</u>              | <u>Condition</u>         |
|-------------------------------|--------------------------|
| Carbon monoxide               | At Elevated Temperatures |
| Carbon dioxide                | At Elevated Temperatures |
| Hydrogen Fluoride             | At Elevated Temperatures |
| Perfluoroisobutylene (PFIB)   | At Elevated Temperatures |
| Oxides of Sulfur              | At Elevated Temperatures |
| Toxic Vapor, Gas, Particulate | At Elevated Temperatures |

If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

# **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.

During heating:

Polymer Fume Fever: Sign/symptoms may include chest pain or tightness, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea and headache.

#### **Skin Contact:**

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

#### **Eve Contact:**

During heating: Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction. 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:**

\_\_\_\_\_

# Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

# **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  | Ingestion |                | No data available; calculated ATE >5,000 mg/kg |
| Vinylidene Fluoride - Hexafluoropropylene Polymer  | Dermal    |                | LD50 estimated to be > 5,000 mg/kg             |
| Vinylidene Fluoride - Hexafluoropropylene Polymer  | Ingestion | Rat            | LD50 6,000 mg/kg                               |
| Bisphenol AF   | Dermal    | Rat            | LD50 > 2,000 mg/kg                             |
| Bisphenol AF   | Ingestion | Rat            | LD50 > 2,000 mg/kg                             |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL  | Dermal    | Professio      | LD50 estimated to be > 5,000 mg/kg             |
| BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)  |           | nal<br>judgeme |  |
|  |           | nt             |  |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL  | Ingestion | Rat            | LD50 > 2,000 mg/kg                             |
| BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)  | D I       | D.             | LD50 > 2 000 //                                |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride         | Dermal    | Rat            | LD50 > 2,000 mg/kg                             |
| (S2Cl2)  |           |                |  |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2Cl2) | Ingestion | Rat            | LD50 > 2,000 mg/kg                             |

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

| Name  | Species | Value                     |
|---|---------|---------------------------|
|   |         |                           |
| Vinylidene Fluoride - Hexafluoropropylene Polymer                                   | Rabbit  | No significant irritation |
| Bisphenol AF  | Rabbit  | No significant irritation |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL   | Rabbit  | No significant irritation |
| BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)   |         |                           |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products | Rabbit  | No significant irritation |
| with benzene, chlorine and sulfur chloride (S2Cl2)                                  |         |                           |

**Serious Eye Damage/Irritation** 

| Name  | Species | Value           |
|---|---------|-----------------|
|   |         |                 |
| Vinylidene Fluoride - Hexafluoropropylene Polymer                                   | Rabbit  | Mild irritant   |
| Bisphenol AF  | Rabbit  | Corrosive       |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL   | Rabbit  | Mild irritant   |
| BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)   |         |                 |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products | Rabbit  | Severe irritant |
| with benzene, chlorine and sulfur chloride (S2Cl2)                                  |         |                 |

# **Skin Sensitization**

| Name  | Species | Value          |
|---|---------|----------------|
| Bisphenol AF  | Guinea  | Not classified |
|   | pig     |                |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL   | Guinea  | Not classified |
| BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)   | pig     |                |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products | Mouse   | Sensitizing    |
| with benzene, chlorine and sulfur chloride (S2Cl2)                                  |         |                |

# **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  |
|--|----------|--|
|  |          |  |
| Bisphenol AF   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-(HEXAFLUOROISOPROPYLIDENE)DIPHENOL<br>BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)   | In Vitro | Not mutagenic  |
| Phenol, 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis-, reaction products with benzene, chlorine and sulfur chloride (S2Cl2) | In Vitro | Some positive data exist, but the data are not sufficient for classification |

# Carcinogenicity

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

# Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name   | Route     | Value  | Species | Test result            | Exposure<br>Duration     |
|--|-----------|--|---------|------------------------|--------------------------|
| Bisphenol AF   | Ingestion | Not classified for development                     | Rat     | NOAEL 100<br>mg/kg/day | premating into lactation |
| Bisphenol AF   | Ingestion | Toxic to female reproduction                       | Rat     | LOAEL 30<br>mg/kg/day  | premating into lactation |
| Bisphenol AF   | Ingestion | Toxic to male reproduction                         | Rat     | LOAEL 30<br>mg/kg/day  | 55 days                  |
| 4,4'-<br>(HEXAFLUOROISOPROPYLIDENE)DIP<br>HENOL<br>BENZYLTRIPHENYLPHOSPHONIUM<br>SALT (1:1)  | Ingestion | Not classified for development                     | Rat     | NOAEL 100<br>mg/kg/day | premating into lactation |
| 4,4'- (HEXAFLUOROISOPROPYLIDENE)DIP HENOL BENZYLTRIPHENYLPHOSPHONIUM SALT (1:1)  | Ingestion | Toxic to female reproduction                       | Rat     | LOAEL 30<br>mg/kg/day  | premating into lactation |
| 4,4'-<br>(HEXAFLUOROISOPROPYLIDENE)DIP<br>HENOL<br>BENZYLTRIPHENYLPHOSPHONIUM<br>SALT (1:1)  | Ingestion | Toxic to male reproduction                         | Rat     | LOAEL 30<br>mg/kg/day  | 55 days                  |
| Phenol, 4,4'-[2,2,2-trifluoro-1-<br>(trifluoromethyl)ethylidene]bis-, reaction<br>products with benzene, chlorine and sulfur<br>chloride (S2Cl2) | Ingestion | Not classified for reproduction and/or development | Rat     | NOAEL 150<br>mg/kg/day | 28 days                  |

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

| peeme imiger organ romery single enjoyare |            |                        |  |                              |                        |                      |  |
|---|------------|------------------------|--|------------------------------|------------------------|----------------------|--|
| Name                                      | Route      | Target Organ(s)        | Value  | Species                      | Test result            | Exposure<br>Duration |  |
| Bisphenol AF                              | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar<br>health<br>hazards | NOAEL Not<br>available | 241 441011           |  |

**Specific Target Organ Toxicity - repeated exposure** 

| Name  | Route     | Target Organ(s)  | Value          | Species | Test result                  | Exposure<br>Duration |
|---|-----------|--|----------------|---------|------------------------------|----------------------|
| Vinylidene Fluoride -<br>Hexafluoropropylene<br>Polymer | Ingestion | liver  | Not classified | Rat     | NOAEL<br>10,000<br>mg/kg/day | 2 weeks              |
| Bisphenol AF  | Ingestion | heart   endocrine<br>system  <br>gastrointestinal tract<br>  hematopoietic<br>system   liver | Not classified | Rat     | NOAEL 100<br>mg/kg/day       | 28 days              |

|  |           | nervous system  <br>kidney and/or<br>bladder  |                |     |                        |         |
|--|-----------|---|----------------|-----|------------------------|---------|
| Phenol, 4,4'-[2,2,2-trifluoro-1-<br>(trifluoromethyl)ethylidene<br>]bis-, reaction products<br>with benzene, chlorine and<br>sulfur chloride (S2Cl2) | Ingestion | endocrine system  <br>liver   kidney and/or<br>bladder   auditory<br>system   heart  <br>bone, teeth, nails,<br>and/or hair   bone<br>marrow  <br>hematopoietic<br>system   immune<br>system   respiratory<br>system   vascular<br>system | Not classified | Rat | NOAEL 150<br>mg/kg/day | 28 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. Combustion products will include HF. Facility must be capable of handling halogenated materials. 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**

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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: 3 Flammability: 1 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.

#### **HMIS Hazard Classification**

**Health:** \*2 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

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