



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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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™ Dynamar™ Polymer Processing Additive FX 5929M

#### Product Identification Numbers

|                |                |                |                |                |
|----------------|----------------|----------------|----------------|----------------|
| LB-F100-2297-4 | 41-2861-0155-9 | 98-0213-3354-1 | 98-0213-3355-8 | 98-0213-3356-6 |
| 98-0213-3394-7 | 98-0213-3395-4 | XA-0100-2101-3 | XA-0100-2102-1 | XA-0100-2103-9 |
| XA-0100-2889-3 | XA-0100-2967-7 | XA-0100-3092-3 | XA-0100-3760-5 |                |

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

##### Intended Use

Polymer Processing Additive

##### Restrictions on use

Not applicable

#### 1.3. Supplier's details

|                   |  |
|-------------------|--|
| <b>Company:</b>   | 3M Canada Company  |
| <b>Division:</b>  | Advanced Materials Division  |
| <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

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

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Health Hazard |

**Pictograms****Hazard statements**

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

**Precautionary statements****Prevention:**

Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

**Response:**

Get medical advice/attention if you feel unwell.

**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   |
|---|------------|------------------------|---|
| Polyethylene Glycol                             | 25322-68-3 | 40 - 55                | Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-                |
| Vinylidene Fluoride-Hexafluoropropylene Polymer | 9011-17-0  | 40 - 55                | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene     |
| Calcium Carbonate                               | 471-34-1   | < 5                    | Carbonic acid calcium salt (1:1)  |
| Talc  | 14807-96-6 | 0.5 - 5 Trade Secret * | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) |
| Magnesium Oxide                                 | 1309-48-4  | < 3                    | Magnesium oxide (MgO)   |

\*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 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.

**Eye 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**

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 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. 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. 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. Use wet sweeping compound or water to avoid dusting. Sweep up. 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. For industrial or professional use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. 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 contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store away from heat. 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.

| <b>Ingredient</b>   | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>                            | <b>Additional Comments</b> |
|---------------------|-------------------|---------------|--|----------------------------|
| Magnesium Oxide     | 1309-48-4         | ACGIH         | TWA(inhalable fraction):10 mg/m <sup>3</sup> |                            |
| Talc                | 14807-96-6        | ACGIH         | TWA(respirable fraction):2 mg/m <sup>3</sup> |                            |
| Polyethylene Glycol | 25322-68-3        | AIHA          | TWA: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**

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. 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

**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.

Gloves made from the following material(s) are recommended: Neoprene

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 - Neoprene

**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 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

|  |                                      |
|--|--------------------------------------|
| <b>Physical state</b>                                | Solid                                |
| <b>Specific Physical Form:</b>                       | Powder                               |
| <b>Colour</b>  | Off-White                            |
| <b>Odour</b>   | Odourless                            |
| <b>Odour threshold</b>                               | <i>No Data Available</i>             |
| <b>pH</b>  | <i>Not Applicable</i>                |
| <b>Melting point/Freezing point</b>                  | <i>No Data Available</i>             |
| <b>Boiling point</b>                                 | <i>Not Applicable</i>                |
| <b>Flash Point</b>                                   | No flash point                       |
| <b>Evaporation rate</b>                              | <i>Not Applicable</i>                |
| <b>Flammability (solid, gas)</b>                     | Not Classified                       |
| <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 - 1.3 g/cm <sup>3</sup>            |
| <b>Relative density</b>                              | 1 - 1.3 [Ref Std: WATER=1]           |
| <b>Water solubility</b>                              | Moderate                             |
| <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>                      | 341 °C [Details:METHOD: ASTM D-1929] |
| <b>Decomposition temperature</b>                     | <i>No Data Available</i>             |
| <b>Viscosity/Kinematic Viscosity</b>                 | <i>Not Applicable</i>                |
| <b>Volatile Organic Compounds</b>                    | <i>Not Applicable</i>                |
| <b>Percent volatile</b>                              | <i>Not Applicable</i>                |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | <i>Not Applicable</i>                |
| <b>Molecular weight</b>                              | <i>No Data Available</i>             |

## 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

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

#### 10.5. Incompatible materials

Strong oxidizing agents

Al or Mg powder and high/shear temperature conditions

#### 10.6. Hazardous decomposition products

| <u>Substance</u>              | <u>Condition</u>                  |
|-------------------------------|-----------------------------------|
| Carbonyl Fluoride             | At Elevated Temperatures - >300°C |
| Formaldehyde                  | At Elevated Temperatures - >300°C |
| Carbon monoxide               | At Elevated Temperatures - >300°C |
| Carbon dioxide                | At Elevated Temperatures - >300°C |
| Hydrogen Fluoride             | At Elevated Temperatures - >300°C |
| Toxic Vapor, Gas, Particulate | At Elevated Temperatures - >300°C |

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

## 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.

May cause additional health effects (see below).

##### Skin Contact:

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

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

##### Eye Contact:

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

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

##### Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

#### Additional Health Effects:

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

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

**Carcinogenicity:**

| <b>Ingredient</b>                  | <b>CAS No.</b> | <b>Class Description</b>       | <b>Regulation</b>                           |
|------------------------------------|----------------|--------------------------------|---|
| Talc containing asbestiform fibres | 14807-96-6     | Grp. 1: Carcinogenic to humans | 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                                 | Ingestion                      |                        | No data available; calculated ATE >5,000 mg/kg |
| Polyethylene Glycol                             | Dermal                         | Rabbit                 | LD50 > 20,000 mg/kg                            |
| Polyethylene Glycol                             | Ingestion                      | Rat                    | LD50 32,770 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                               |
| Talc  | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| Talc  | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg             |
| Magnesium Oxide                                 | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Magnesium Oxide                                 | Ingestion                      | Rat                    | LD50 3,870 mg/kg                               |
| Calcium Carbonate                               | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                             |
| Calcium Carbonate                               | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 3 mg/l                                    |
| Calcium Carbonate                               | Ingestion                      | Rat                    | LD50 6,450 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| <b>Name</b>                                     | <b>Species</b>         | <b>Value</b>              |
|---|------------------------|---------------------------|
| Polyethylene Glycol                             | Rabbit                 | Minimal irritation        |
| Vinylidene Fluoride-Hexafluoropropylene Polymer | Rabbit                 | No significant irritation |
| Talc  | Rabbit                 | No significant irritation |
| Magnesium Oxide                                 | Professional judgement | No significant irritation |
| Calcium Carbonate                               | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| <b>Name</b>                                     | <b>Species</b> | <b>Value</b>              |
|---|----------------|---------------------------|
| Polyethylene Glycol                             | Rabbit         | Mild irritant             |
| Vinylidene Fluoride-Hexafluoropropylene Polymer | Rabbit         | Mild irritant             |
| Talc  | Rabbit         | No significant irritation |
| Calcium Carbonate                               | Rabbit         | No significant irritation |

**Skin Sensitization**

| <b>Name</b>         | <b>Species</b> | <b>Value</b>   |
|---------------------|----------------|----------------|
| Polyethylene Glycol | Guinea pig     | Not classified |

**Respiratory Sensitization**

| <b>Name</b> | <b>Species</b> | <b>Value</b> |
|-------------|----------------|--------------|
|             |                |              |

|      |       |                |
|------|-------|----------------|
| Talc | Human | Not classified |
|------|-------|----------------|

**Germ Cell Mutagenicity**

| Name                | Route    | Value         |
|---------------------|----------|---------------|
| Polyethylene Glycol | In Vitro | Not mutagenic |
| Polyethylene Glycol | In vivo  | Not mutagenic |
| Talc                | In Vitro | Not mutagenic |
| Talc                | In vivo  | Not mutagenic |
| Magnesium Oxide     | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name                | Route         | Species          | Value  |
|---------------------|---------------|------------------|--|
| Polyethylene Glycol | Ingestion     | Rat              | Not carcinogenic   |
| Talc                | Inhalation    | Rat              | Some positive data exist, but the data are not sufficient for classification |
| Magnesium Oxide     | Not Specified | Human and animal | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                | Route         | Value  | Species | Test result                   | Exposure Duration             |
|---------------------|---------------|--|---------|-------------------------------|-------------------------------|
| Polyethylene Glycol | Ingestion     | Not classified for female reproduction             | Rat     | NOAEL 1,125 mg/kg/day         | during gestation              |
| Polyethylene Glycol | Ingestion     | Not classified for male reproduction               | Rat     | NOAEL 5699 +/- 1341 mg/kg/day | 5 days                        |
| Polyethylene Glycol | Not Specified | Not classified for reproduction and/or development |         | NOEL N/A                      |                               |
| Polyethylene Glycol | Ingestion     | Not classified for development                     | Mouse   | NOAEL 562 mg/animal/day       | during gestation              |
| Talc                | Ingestion     | Not classified for development                     | Rat     | NOAEL 1,600 mg/kg             | during organogenesis          |
| Calcium Carbonate   | Ingestion     | Not classified for development                     | Rat     | NOAEL 625 mg/kg/day           | prematings & during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name                | Route      | Target Organ(s)        | Value          | Species | Test result         | Exposure Duration |
|---------------------|------------|------------------------|----------------|---------|---------------------|-------------------|
| Polyethylene Glycol | Inhalation | respiratory irritation | Not classified | Rat     | NOAEL 1.008 mg/l    | 2 weeks           |
| Magnesium Oxide     | Inhalation | respiratory system     | Not classified | Human   | NOAEL Not available |                   |
| Calcium Carbonate   | Inhalation | respiratory system     | Not classified | Rat     | NOAEL 0.812 mg/l    | 90 minutes        |

**Specific Target Organ Toxicity - repeated exposure**

| Name                | Route      | Target Organ(s)  | Value          | Species | Test result           | Exposure Duration |
|---------------------|------------|--|----------------|---------|-----------------------|-------------------|
| Polyethylene Glycol | Inhalation | respiratory system   | Not classified | Rat     | NOAEL 1.008 mg/l      | 2 weeks           |
| Polyethylene Glycol | Ingestion  | kidney and/or bladder   heart   endocrine system   hematopoietic | Not classified | Rat     | NOAEL 5,640 mg/kg/day | 13 weeks          |



|   |            |   |  |       |                        |                       |
|---|------------|---|--|-------|------------------------|-----------------------|
|   |            | system   liver   nervous system         |  |       |                        |                       |
| Vinylidene Fluoride-Hexafluoropropylene Polymer | Ingestion  | liver                                   | Not classified   | Rat   | NOAEL 10,000 mg/kg/day | 2 weeks               |
| 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             |
| Calcium Carbonate                               | Inhalation | respiratory system                      | Not classified   | Human | NOAEL Not available    | occupational exposure |

**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 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 material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. 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:** 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:** \*3 **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)