



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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| <b>Issue Date:</b>     | 2020/10/09 | <b>Supersedes Date:</b> | 2016/05/01 |

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 9614

#### Product Identification Numbers

98-0213-1216-4      98-0213-1217-2      98-0213-1218-0      98-0213-1371-7      H0-0022-2975-7  
HB-0042-9883-0

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

##### Intended Use

Polymer Processing Additive

##### 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

Combustible Dust.

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

#### 2.2. Label elements

##### Signal word

Danger

**Symbols**

Health Hazard |

**Pictograms**



**Hazard statements**

May form combustible dust concentrations in air.

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

**Precautionary statements**

**Prevention:**

Use non-sparking tools. 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. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Routine housekeeping should be instituted to ensure that combustible dusts do not accumulate on surfaces.

**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.

91% 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   |
|---|-------------|---------|---|
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | 9011-17-0   | 88 - 93 | 1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene |
| Talc  | 14807-96-6  | 4 - 10  | Talc (Mg3H2(SiO3)4)   |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | 112945-52-5 | 1 - 5   | Fumed amorphous silica, crystalline-free                            |

**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**

See Section 11.1. Information on toxicological effects.

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

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

Material will not burn.

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

Powdered material may form explosive dust-air mixture. Avoid fire fighting methods that would cause powders to become airborne.

**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.

**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. 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Vacuum to avoid dusting. WARNING! A motor could be an ignition source and cause combustible dust in the spill area to burn or explode. 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

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when using this product. Wash thoroughly after handling. 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. Dust clouds of this material in sufficient concentration in combination with an ignition source may be explosive. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions. Routine housekeeping should be instituted to ensure that combustible dusts do not accumulate on surfaces. Solids can generate static electricity charges when transferred and in mixing operations sufficient to be an ignition source. Evaluate the need for precautions, such as grounding and bonding, low energy transfer of material (e.g. low speed, short distance), or inert atmospheres.

### 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

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 |
|------------|------------|--------|----------------------------------|---------------------|
| Talc       | 14807-96-6 | ACGIH  | TWA(respirable fraction):2 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

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. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. Local exhaust required above 400 C. It is recommended that all dust control equipment (such as local exhaust ventilation), process equipment, and material transport systems involved in handling of this product be evaluated for the need for explosion-protection safeguards. Recognized safeguards include explosion relief vents, explosion suppression systems, and oxygen deficient process environments. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Evaluate the need for electrically classified 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:

Full Face Shield

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.

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

### 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:

During heating:

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

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 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, 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>Not Applicable</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>Viscosity/Kinematic Viscosity      Viscosity/Kinematic Viscosity</b> | <i>Not Applicable</i>    |
| <b>Density</b>  | 1.7 g/cm <sup>3</sup>    |
| <b>Relative density</b>   | 1.7 [Ref Std: 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>Not Applicable</i>    |
| <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>Bulk density</b>   | 0.7 g/cm <sup>3</sup>    |
| <b>Molecular weight</b>   | <i>No Data Available</i> |

### Nanoparticles

This material contains nanoparticles.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

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>                  |
|-------------------------------|-----------------------------------|
| Carbonyl Fluoride             | 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. May cause additional health effects (see below).

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:

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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.

**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                                     | 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 |
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | 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             |
| 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                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species | Value                     |
|---|---------|---------------------------|
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | Rabbit  | No significant irritation |
| Talc  | Rabbit  | No significant irritation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name  | Species | Value                     |
|---|---------|---------------------------|
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | Rabbit  | Mild irritant             |
| Talc  | Rabbit  | No significant irritation |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Rabbit  | No significant irritation |

**Skin Sensitization**

| Name  | Species          | Value          |
|---|------------------|----------------|
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Human and animal | Not classified |

**Respiratory Sensitization**

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

**Germ Cell Mutagenicity**

| Name  | Route    | Value         |
|---|----------|---------------|
| Talc  | In Vitro | Not mutagenic |
| Talc  | In vivo  | Not mutagenic |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | In Vitro | Not mutagenic |

**Carcinogenicity**

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

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

| Name  | Route     | Value                                  | Species | Test result           | Exposure Duration    |
|---|-----------|--|---------|-----------------------|----------------------|
| 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**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name  | Route      | Target Organ(s)                         | Value  | Species | Test result                | Exposure Duration     |
|---|------------|---|--|---------|----------------------------|-----------------------|
| Vinylidene Fluoride-Hexafluoropropylene Copolymer   | 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/m <sup>3</sup> | 113 weeks             |
| Synthetic Amorphous Silica, Fumed, Crystalline Free | Inhalation | respiratory system   silicosis          | 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. 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: 0 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: 0 Physical Hazard: 0 Personal Protection: X - See PPE section.**

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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)**