

# 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>™</sup> Dynamar<sup>™</sup> Elastomer Additive FC 2172P

**Product Identification Numbers** 

LB-F100-2604-7 41-2860-2420-7 98-0213-0726-3 98-0213-0727-1 98-0213-0862-6

#### 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 / 1800 364 3577

# **SECTION 2: Hazard identification**

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

Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 1C. Reproductive Toxicity: Category 1B.

# 2.2. Label elements

Signal word

Danger

**Symbols** 

Corrosion Health Hazard

**Pictograms** 



#### Hazard statements

Causes severe skin burns and eye damage. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves, protective clothing, and eye/face protection. Wash exposed skin thoroughly after handling.

#### **Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

6% of the mixture consists of ingredients of unknown acute dermal toxicity.

# **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	85 - 95	1-Propene, 1,1,2,3,3,3-hexafluoro-,
Hexafluoropropylene Polymer			polymer with 1,1-difluoroethene
TRIBUTYL(2-	121848-13-3	3 - 7 Trade Secret *	Phosphonium, tributyl(2-methoxypropyl)-,
METHOXYPROPYL)PHOSPH			chloride
ONIUM CHLORIDE			
4,4'-[2,2,2-trifluoro-1-	1478-61-1	1 - 5 Trade Secret *	Phenol, 4,4'-[2,2,2-trifluoro-1-
(trifluoromethyl)ethylidene]bis[p			(trifluoromethyl)ethylidene]bis-
henol]			
Talc	14807-96-6	0.1 - 3	Talc (Mg3H2(SiO3)4)
BENZYLTRIPHENYLPHOSP	1100-88-5	< 1	Phosphonium, triphenyl(phenylmethyl)-,
HONIUM CHLORIDE			chloride

\*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.

#### **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. Do not induce vomiting. Get immediate medical attention.

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

### 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. Unsuitable extinguishing media

None Determined

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

Exposure to extreme heat can give rise to thermal decomposition.

#### 5.4. Special protection 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

 $\mathbf{p}_{\text{args}}$  2 of  $\mathbf{1}$ 

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. 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

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	<b>Additional Comments</b>
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. 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:

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

D 4 C 16

## clothing.

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

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 – Nitrile

### 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

Physical state   Solid	information on basic physical and chemical propertie	•	
Colour Straw, White Odour Odourless Odour threshold No Data Available pH Not Applicable Melting point/Freezing point Not Applicable Boiling point Not Applicable Flash Point No flash point Evaporation rate No Data Available Flammability Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapour Pressure Not Applicable Relative Vapour Density Not Applicable Density 1.8 g/cm3 Relative density 1.8 [Ref Std:WATER=1] Water solubility Negligible	Physical state	Solid	
OdourOdourlessOdour thresholdNo Data AvailablepHNot ApplicableMelting point/Freezing pointNot ApplicableBoiling pointNot ApplicableFlash PointNo flash pointEvaporation rateNo Data AvailableFlammabilityNot ApplicableFlammable Limits(LEL)Not ApplicableVapour PressureNot ApplicableRelative Vapour DensityNot ApplicableDensity1.8 g/cm3Relative density1.8 [Ref Std:WATER=1]Water solubilityNegligible	Specific Physical Form:	Solid Block or Slab	
OdourOdourlessOdour thresholdNo Data AvailablepHNot ApplicableMelting point/Freezing pointNot ApplicableBoiling pointNot ApplicableFlash PointNo flash pointEvaporation rateNo Data AvailableFlammabilityNot ApplicableFlammable Limits(LEL)Not ApplicableVapour PressureNot ApplicableRelative Vapour DensityNot ApplicableDensity1.8 g/cm3Relative density1.8 [Ref Std:WATER=1]Water solubilityNegligible			
Odour threshold  pH  Not Applicable  Melting point/Freezing point  Not Applicable  Boiling point  Not Applicable  Not Applicable  Flash Point  Evaporation rate  No Data Available  Flammability  Not Applicable  Flammable Limits(LEL)  Not Applicable  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Not Applicable  1.8 g/cm3  Relative density  Negligible	Colour	Straw, White	
Melting point/Freezing point  Not Applicable  Boiling point  Not Applicable  Not Applicable  Flash Point  No flash point  Evaporation rate  No Data Available  Flammability  Not Applicable  Flammable Limits(LEL)  Not Applicable  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Not Applicable  Not Applicable	Odour	Odourless	
Melting point/Freezing pointNot ApplicableBoiling pointNot ApplicableFlash PointNo flash pointEvaporation rateNo Data AvailableFlammabilityNot ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapour PressureNot ApplicableRelative Vapour DensityNot ApplicableDensity1.8 g/cm3Relative density1.8 [Ref Std:WATER=1]Water solubilityNegligible	Odour threshold	No Data Available	
Boiling point  Flash Point  No flash point  Evaporation rate  No Data Available  Flammability  Not Applicable  Flammable Limits(LEL)  Flammable Limits(UEL)  Vapour Pressure  Relative Vapour Density  Density  Relative density  Not Applicable	pH	Not Applicable	
Flash Point  Evaporation rate  No Data Available  Flammability  Not Applicable  Flammable Limits(LEL)  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Density  1.8 g/cm3  Relative density  Negligible	Melting point/Freezing point	Not Applicable	
Evaporation rate  Flammability  Not Applicable  Flammable Limits(LEL)  Not Applicable  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Not Applicable  1.8 g/cm3  Relative density  1.8 [Ref Std:WATER=1]  Water solubility  Negligible	Boiling point	Not Applicable	
Flammability  Not Applicable  Flammable Limits(LEL)  Not Applicable  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Not Applicable  Not Applicable  Not Applicable  1.8 g/cm3  Relative density  1.8 [Ref Std:WATER=1]  Water solubility  Negligible	Flash Point		
Flammable Limits(LEL)  Flammable Limits(UEL)  Not Applicable  Vapour Pressure  Not Applicable  Relative Vapour Density  Not Applicable  Not Applicable  Not Applicable  1.8 g/cm3  Relative density  1.8 [Ref Std:WATER=1]  Water solubility  Negligible	Evaporation rate	No Data Available	
Flammable Limits(UEL)  Not Applicable  Not Applicable  Relative Vapour Density  Not Applicable  Not Applicable  1.8 g/cm3  Relative density  1.8 [Ref Std:WATER=1]  Water solubility  Negligible	Flammability	Not Applicable	
Flammable Limits(UEL)  Not Applicable  Not Applicable  Relative Vapour Density  Not Applicable  Not Applicable  1.8 g/cm3  Relative density  1.8 [Ref Std:WATER=1]  Water solubility  Negligible			
Vapour Pressure       Not Applicable         Relative Vapour Density       Not Applicable         Density       1.8 g/cm3         Relative density       1.8 [Ref Std:WATER=1]         Water solubility       Negligible		Not Applicable	
Relative Vapour Density     Not Applicable       Density     1.8 g/cm3       Relative density     1.8 [Ref Std:WATER=1]       Water solubility     Negligible	Flammable Limits(UEL)	Not Applicable	
Density1.8 g/cm3Relative density1.8 [Ref Std:WATER=1]Water solubilityNegligible		Not Applicable	
Relative density       1.8 [Ref Std:WATER=1]         Water solubility       Negligible	Relative Vapour Density	Not Applicable	
Water solubility Negligible	Density	1.8 g/cm3	
V C C	Relative density	1.8 [Ref Std:WATER=1]	
Solubility- non-water No Data Available	Water solubility	Negligible	
j i iii iii iii iii ii ii ii ii ii ii ii	Solubility- non-water	No Data Available	
Partition coefficient: n-octanol/ water No Data Available	Partition coefficient: n-octanol/ water		
Autoignition temperature Not Applicable	Autoignition temperature	**	
Decomposition temperature No Data Available	Decomposition temperature	No Data Available	
Kinematic Viscosity Not Applicable		Not Applicable	
Volatile Organic Compounds  No Data Available	Volatile Organic Compounds	No Data Available	
Percent volatile No Data Available	Percent volatile	No Data Available	
VOC Less H2O & Exempt Solvents  No Data Available	VOC Less H2O & Exempt Solvents	No Data Available	

Molecular weight	No Data Available
Particle Characteristics	Not Applicable

# **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

None known.

#### 10.5. Incompatible materials

Al or Mg powder and high/shear temperature conditions

# 10.6. Hazardous decomposition products

Substance	<b>Condition</b>
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. Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

#### **Eve Contact:**

During heating: Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction. Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

# **Ingestion:**

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause 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 1 oxicity			
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
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM	Ingestion	Rat	LD50 1,200 mg/kg
CHLORIDE			
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	Dermal	Rat	LD50 > 2,000 mg/kg
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	Ingestion	Rat	LD50 > 2,000 mg/kg
BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE	Ingestion	Rat	LD50 >100, <300 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Vinylidene Fluoride - Hexafluoropropylene Polymer	Rabbit	No significant irritation
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM CHLORIDE	Rabbit	Corrosive
Talc	Rabbit	No significant irritation
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	Rabbit	No significant irritation
BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Vinylidene Fluoride - Hexafluoropropylene Polymer	Rabbit	Mild irritant
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM CHLORIDE	Rabbit	Severe irritant
Talc	Rabbit	No significant irritation
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	Rabbit	Corrosive
BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE	Rabbit	Corrosive

### **Skin Sensitization**

Name	Species	Value
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM CHLORIDE	Guinea	Not classified

	pig	
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	Guinea	Not classified
	pig	

**Respiratory Sensitization** 

Name	Species	Value
Talc	Human	Not classified

**Germ Cell Mutagenicity** 

Name	Route	Value
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM CHLORIDE	In Vitro	Not mutagenic
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	In vivo	Not mutagenic
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol]	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene]bis[phenol]	Ingestion	Toxic to female reproduction	Rat	LOAEL 338 ppm in the diet	2 generation
4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene]bis[phenol]	Ingestion	Toxic to male reproduction	Rat	LOAEL 338 ppm in the diet	2 generation
4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene]bis[phenol]	Ingestion	Toxic to development	Rat	LOAEL 338 ppm in the diet	2 generation

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
TRIBUTYL(2- METHOXYPROPYL)PH OSPHONIUM CHLORIDE	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene ]bis[phenol]	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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

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Talc	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL 18	113 weeks
		respiratory system			mg/m3	
4,4'-[2,2,2-trifluoro-1- (trifluoromethyl)ethylidene ]bis[phenol]	Ingestion	heart   endocrine system   gastrointestinal tract   hematopoietic	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
		system   liver   nervous system   kidney and/or bladder				

#### **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**

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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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.

### 3M Canada SDSs are available at www.3M.ca

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