



## Safety Data Sheet

Copyright, 2024, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 39-4718-1 | <b>Version Number:</b>  | 3.01     |
| <b>Issue Date:</b>     | 10/29/24  | <b>Supersedes Date:</b> | 08/01/23 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Dyneon™ Fluoroelastomer FC 2176

#### Product Identification Numbers

41-2800-2187-8, 98-0211-0358-9, 98-0211-1725-8, 98-0211-9617-9  
7100009662, 7100152877, 7100150373

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

##### Recommended use

Fluoroelastomer

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Advanced Materials Division             |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Reproductive Toxicity: Category 1B.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye irritation.  
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.  
Wear protective gloves and eye/face protection.  
Wash thoroughly after handling.

**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 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.

**Supplemental Information:**

May cause thermal burns.

### SECTION 3: Composition/information on ingredients

| Ingredient  | C.A.S. No. | % by Wt                |
|---|------------|------------------------|
| Vinylidene Fluoride - Hexafluoropropylene Polymer               | 9011-17-0  | 95 - 99                |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | 1478-61-1  | < 3 Trade Secret *     |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | 80-07-9    | 0.1 - 3 Trade Secret * |
| BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE                             | 1100-88-5  | < 1                    |

\*The specific chemical identity and/or exact percentage (concentration) of this composition 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**

No critical symptoms or effects. 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**

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**

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 vapors, 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/vapors/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. 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. 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/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Local exhaust required above 400 C.

### 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.

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:

Half mask or full facepiece air-purifying respirator with N100 particulate filters  
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates  
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

#### Thermal hazards

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>Appearance</b>                                    |                          |
| Physical state                                       | Solid                    |
| Color  | Straw, White             |
| <b>Specific Physical Form:</b>                       | Solid Block or Slab      |
| <b>Odor</b>  | Odorless                 |
| <b>Odor threshold</b>                                | <i>No Data Available</i> |
| <b>pH</b>  | <i>Not Applicable</i>    |
| <b>Melting 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>No Data Available</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>Vapor Pressure</b>                                | <i>Not Applicable</i>    |
| <b>Vapor Density</b>                                 | <i>Not Applicable</i>    |
| <b>Density</b>                                       | 1.8 g/cm <sup>3</sup>    |
| <b>Specific Gravity</b>                              | 1.8 [Ref Std:WATER=1]    |
| <b>Solubility in Water</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</b>                                     | <i>Not Applicable</i>    |
| <b>Molecular weight</b>                              | <i>No Data Available</i> |
| <b>Volatile Organic Compounds</b>                    | <i>No Data Available</i> |
| <b>Percent volatile</b>                              | <i>No Data Available</i> |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</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

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.

#### Eye 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                               |
| 4,4'-DICHLORODIPHENYL SULFONE                     | Dermal    | Professional | LD50 estimated to be 2,000 - 5,000 mg/kg       |

|   |           | judgement |                       |
|---|-----------|-----------|-----------------------|
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Ingestion | Rat       | LD50 4,810 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 |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Rabbit  | Minimal 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   |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Rabbit  | Severe irritant |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Rabbit  | Corrosive       |
| BENZYLTRIPHENYLPHOSPHONIUM CHLORIDE                             | Rabbit  | Corrosive       |

### Skin Sensitization

| Name  | Species    | Value          |
|---|------------|----------------|
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Mouse      | Not classified |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Guinea pig | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name  | Route    | Value  |
|---|----------|--|
| 4,4'-DICHLORODIPHENYL SULFONE                                   | In Vitro | Not mutagenic  |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| 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            |
|-------------------------------|-----------|-------------------------|------------------|
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                          | Route     | Value                                  | Species | Test Result        | Exposure Duration          |
|-------------------------------|-----------|--|---------|--------------------|----------------------------|
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Not classified for female reproduction | Rat     | NOAEL 50 mg/kg/day | 42 days                    |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 50 mg/kg/day | prematuring into lactation |
| 4,4'-DICHLORODIPHENYL SULFONE | Ingestion | Not classified for development         | Rat     | NOAEL 15 mg/kg/day | prematuring into lactation |
| 4,4'-[2,2,2-trifluoro-1-      | Ingestion | Toxic to female reproduction           | Rat     | LOAEL 338          | 2 generation               |

|   |           |                            |     |                           |                 |  |
|---|-----------|----------------------------|-----|---------------------------|-----------------|--|
| (trifluoromethyl)ethylidene]bis[phenol]                         |           |                            |     |                           | ppm in the diet |  |
| 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 |
|---|------------|------------------------|--|------------------------|---------------------|-------------------|
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | 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           |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Ingestion | hematopoietic system   liver   immune system  | Not classified | Rat     | NOAEL 200 mg/kg/day    | 14 weeks          |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Ingestion | kidney and/or bladder   | Not classified | Rat     | NOAEL 19 mg/kg/day     | 14 weeks          |
| 4,4'-DICHLORODIPHENYL SULFONE                                   | Ingestion | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   muscles   nervous system   respiratory system   vascular system | Not classified | Rat     | NOAEL 200 mg/kg/day    | 14 weeks          |
| 4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis[phenol] | Ingestion | heart   endocrine system   gastrointestinal tract   hematopoietic system   liver   nervous system   kidney and/or bladder                             | Not classified | Rat     | NOAEL 100 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

### Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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.

**EPA Hazardous Waste Number (RCRA):** Not regulated

## 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. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not applicable

##### Health Hazards

Reproductive toxicity

Serious eye damage or eye irritation

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information****NFPA Hazard Classification****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.

The NFPA Health code of 3 is due to emergency situations where the material may thermally decompose and release Hydrogen Fluoride and Perfluoroisobutylene (PFIB). During normal use conditions, please reference Section 2 and Section 11 of the SDS for additional health hazard information.

**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).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 39-4718-1 | <b>Version Number:</b>  | 3.01     |
| <b>Issue Date:</b>     | 10/29/24  | <b>Supersedes Date:</b> | 08/01/23 |

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M 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 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**