

Safety Data Sheet

Copyright, 2025, 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.

Document Group:39-5147-2Version Number:3.00Issue Date:01/29/25Supercedes Date:03/28/23

SECTION 1: Identification

1.1. Product identifier

3M[™] Dyneon[™] Fluoroelastomer BRE 7231X

Product Identification Numbers

98-0213-0287-6, 98-0213-0288-4 7100152862, 7100106576

1.2. Recommended use and restrictions on use

Recommended use

Fluoroelastomer

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Advanced Materials Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

Telephone: 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.

Skin Sensitizer: Category 1B.

Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms





Hazard Statements

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Precautionary Statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal

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

Supplemental Information:

May cause thermal burns.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
PROPENE-TETRAFLUOROETHYLENE-	54675-89-7	90 - 99
VINYLIDENE FLUORIDE COPOLYMER		
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	181531-28-2	< 3 Trade Secret *
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1),		
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM,		
SODIUM SALT		
BISPHENOL AF	1478-61-1	< 1 Trade Secret *
SULFOLANE	126-33-0	< 1 Trade Secret *

^{*}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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition.

5.3. Special protective actions for fire-fighters

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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

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.

Refer to Section 15 for additional information

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

Refer to Section 15 for additional information

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. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

Neoprene

Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then

use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber Apron - Neoprene

Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

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.

Refer to Section 15 for additional information

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid

Color Straw, White

Specific Physical Form: Solid Block or Slab

Odor Odorless

Odor threshold No Data Available Not Applicable рH **Melting point** Not Applicable **Boiling Point** Not Applicable **Flash Point** No flash point No Data Available **Evaporation rate** Not Classified Flammability (solid, gas) Flammable Limits(LEL) Not Applicable Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure **Vapor Density** Not Applicable **Density** 1.8 g/cm3

Specific Gravity 1.8 [Ref Std:WATER=1]

Solubility in Water Negligible

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** Not Applicable **Decomposition temperature** No Data Available Viscosity Not Applicable Molecular weight No Data Available **Volatile Organic Compounds** No Data Available Percent volatile No Data Available **VOC Less H2O & Exempt Solvents** No Data Available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

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

10.0. Hazar dous accomposition products	
Substance	Condition
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:

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).

Skin Contact:

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

Eve Contact:

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

Page 6 of

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
PROPENE-TETRAFLUOROETHYLENE-VINYLIDENE FLUORIDE COPOLYMER	Dermal		LD50 estimated to be > 5,000 mg/kg
PROPENE-TETRAFLUOROETHYLENE-VINYLIDENE FLUORIDE COPOLYMER	Ingestion	Rat	LD50 > 5,000 mg/kg
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1- (TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1- (TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	Ingestion	Rat	LD50 > 2,000 mg/kg
SULFOLANE	Dermal	Rabbit	LD50 4,897 mg/kg
SULFOLANE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 12 mg/l
SULFOLANE	Ingestion	Rat	LD50 1,846 mg/kg
BISPHENOL AF	Dermal	Rat	LD50 > 2,000 mg/kg
BISPHENOL AF	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	similar	Irritant
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-	compoun	
METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	ds	
SULFOLANE	Rabbit	Minimal irritation
BISPHENOL AF	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	similar	Corrosive
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-	compoun	
METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	ds	
SULFOLANE	Rabbit	Moderate irritant
BISPHENOL AF	Rabbit	Corrosive

Page 7 of

Skin Sensitization

Name	Species	Value
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	Mouse	Sensitizing
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-		
METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT		
SULFOLANE	Guinea	Not classified
	pig	
BISPHENOL AF	Guinea	Not classified
	pig	

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
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	In Vitro	Not mutagenic
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1), TRIBUTYL(2-		
METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT		
SULFOLANE	In Vitro	Not mutagenic
BISPHENOL AF	In vivo	Not mutagenic
BISPHENOL AF	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1- (TRIFLUOROMETHYL)ETHYLIDENE]B IS-,ION(1), TRIBUTYL(2- METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	Ingestion	Toxic to female reproduction	similar compoun ds	LOAEL 338 ppm in the diet	2 generation
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1- (TRIFLUOROMETHYL)ETHYLIDENE]B IS-,ION(1), TRIBUTYL(2- METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	Ingestion	Toxic to male reproduction	similar compoun ds	LOAEL 338 ppm in the diet	2 generation
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1- (TRIFLUOROMETHYL)ETHYLIDENE]B IS-,ION(1), TRIBUTYL(2- METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT	Ingestion	Toxic to development	similar compoun ds	LOAEL 338 ppm in the diet	2 generation
SULFOLANE	Ingestion	Not classified for male reproduction	Rat	NOAEL 700 mg/kg/day	14 days
SULFOLANE	Ingestion	Not classified for female reproduction	Rat	NOAEL 200 mg/kg/day	premating & during gestation
SULFOLANE	Ingestion	Toxic to development	Rat	NOAEL 60 mg/kg/day	premating & during gestation
BISPHENOL AF	Ingestion	Toxic to female reproduction	Rat	LOAEL 338 ppm in the diet	2 generation
BISPHENOL AF	Ingestion	Toxic to male reproduction	Rat	LOAEL 338 ppm in the diet	2 generation
BISPHENOL AF	Ingestion	Toxic to development	Rat	LOAEL 338 ppm in the diet	2 generation

Page 8 **of** 11

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
PHENOL, 4,4'-[2,2,2- TRIFLUORO-1- (TRIFLUOROMETHYL)E THYLIDENE]BIS-,ION(1) , TRIBUTYL(2- METHOXYPROPYL)PH OSPHONIUM, SODIUM SALT	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
BISPHENOL AF	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
SULFOLANE	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	LOAEL 0.5 mg/l	27 days
SULFOLANE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.02 mg/l	90 days
SULFOLANE	Inhalation	liver	Not classified	Monkey	LOAEL 0.5 mg/l	27 days
SULFOLANE	Inhalation	blood	Not classified	Guinea pig	NOAEL 0.16 mg/l	90 days
SULFOLANE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 700 mg/kg/day	28 days
SULFOLANE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 60 mg/kg/day	28 days
BISPHENOL AF	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 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.

EPA Hazardous Waste Number (RCRA): Not regulated

Refer to Section 15 for additional information

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 Respiratory or Skin Sensitization Serious eye damage or eye irritation

Additional TSCA Information

Components	CAS No	Additional Information
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	181531-28-2	Allowed use(s): Elastomer additive. Required exposure
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(controls when handling the LVE substance: Appropriate local
1), TRIBUTYL(2-		exhaust ventilation; unvented goggles or vented goggles as
METHOXYPROPYL)PHOSPHONIUM, SODIUM		appropriate; gloves composed of butyl rubber; apron and/or
SALT		coveralls as appropriate; NIOSH approved full-face air supplied
		respirator or half-mask air supplied respirator based on airborne
		concentration of contaminants and in accordance to OSHA
		regulations. Required environmental release controls for the
		LVE substance: Incineration of wastes and cleanup materials in
		a permitted facility or send to offsite landfill

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. One or more of the components in this material is not listed on the TSCA inventory, but is approved for specific commercial use(s) under a US EPA low volume exemption.

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).

 Document Group:
 39-5147-2
 Version Number:
 3.00

 Issue Date:
 01/29/25
 Supercedes Date:
 03/28/23

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