

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

3MTM DyneonTM Fluoroelastomer BRE 7231X

Product Identification Numbers

LB-F100-2611-6 98-0213-0287-6 98-0213-0288-4 ZF-0002-1474-0

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 / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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/vapours/spray. Wear protective gloves and eye/face protection. Wash exposed skin 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. Take off contaminated clothing and wash it 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.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
PROPENE-	54675-89-7	90 - 99	1-Propene, polymer with 1,1-
TETRAFLUOROETHYLENE-			difluoroethene and tetrafluoroethene
VINYLIDENE FLUORIDE			
COPOLYMER			
PHENOL, 4,4'-[2,2,2-	181531-28-2	0.1 - 1.5 Trade Secret *	Phosphonium, tributyl(2-methoxypropyl)-,
TRIFLUORO-1-			salt with 4,4'-[2,2,2-trifluoro-1-
(TRIFLUOROMETHYL)ETHY			(trifluoromethyl)ethylidene]bis[phenol]mo
LIDENE]BIS-,ION(1),			nosodium salt (1:1)
TRIBUTYL(2-			
METHOXYPROPYL)PHOSPH			
ONIUM, SODIUM SALT			
Phosphonium, tributyl(2-	332350-90-0	< 1	Phosphonium, tributyl(2-methoxypropyl)-,
methoxypropyl)-, salt with			salt with 1,1,2,2,3,3,4,4,4-nonafluoro-N-

1,1,2,2,3,3,4,4,4-nonafluoro-N-			methyl-1-butanesulfonamide (1:1)
methyl-1-butanesulfonamide			
(1:1)			
Silica	7631-86-9	< 1	Silica
BISPHENOL AF	1478-61-1	0.1 - 0.99 Trade Secret *	Phenol, 4,4'-[2,2,2-trifluoro-1-
			(trifluoromethyl)ethylidene]bis-
SULFOLANE	126-33-0	0.1 - 0.9 Trade Secret *	Thiophene, tetrahydro-, 1,1-dioxide

^{*}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. 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 equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

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

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. 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.

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
CAS NO SEQ117921	7631-86-9	ACGIH	TWA(inhalable	
			particulates):10 mg/m3	
CAS NO SEQ117922	7631-86-9	ACGIH	TWA(respirable particles):3	
			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. 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:

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

before and use groves and of protective croming approved to refevant rocal standards to prevent skin contact oused 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 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

information on basic physical and chemical propertie			
Physical state	Solid		
Specific Physical Form:	Solid Block or Slab		
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 (solid, gas)	Not Classified		
Flammable Limits(LEL)	Not Applicable		
Flammable Limits(UEL)	Not Applicable		
Vapour Pressure	Not Applicable		
Vapour Density and/or Relative Vapour Density Not Applicable			
Density 1.8 g/cm3			
Relative density	1.8 [Ref Std:WATER=1]		
Water solubility	Negligible		
Solubility- non-water	No Data Available		
Partition coefficient: n-octanol/ water	No Data Available		
Autoignition temperature	Not Applicable		
omposition temperature No Data Available			
Viscosity/Kinematic Viscosity Not Applicable			
Volatile Organic Compounds No Data Available			
Percent volatile No Data Available			
VOC Less H2O & Exempt Solvents	No Data Available		

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Nanoparticles

This material does not contain nanoparticles.

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	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:

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).

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.

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

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
PROPENE-TETRAFLUOROETHYLENE-VINYLIDENE	Dermal		LD50 estimated to be > 5,000 mg/kg
FLUORIDE COPOLYMER			
PROPENE-TETRAFLUOROETHYLENE-VINYLIDENE	Ingestion	Rat	LD50 > 5,000 mg/kg
FLUORIDE COPOLYMER			
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	Dermal	Professio	LD50 estimated to be 2,000 - 5,000 mg/kg
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1),		nal	
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM,		judgeme	
SODIUM SALT		nt	
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	Ingestion	Rat	LD50 > 2,000 mg/kg
(TRIFLUOROMETHYL)ETHYLIDENE]BIS-,ION(1),			
TRIBUTYL(2-METHOXYPROPYL)PHOSPHONIUM,			
SODIUM SALT			
SULFOLANE	Dermal	Rabbit	LD50 4,897 mg/kg
SULFOLANE	Inhalation-	Rat	LC50 > 12 mg/l
	Dust/Mist		
	(4 hours)		
SULFOLANE	Ingestion	Rat	LD50 1,846 mg/kg
Phosphonium, tributyl(2-methoxypropyl)-, salt with	Ingestion	Rat	LD50 200-2000 mg/kg
1,1,2,2,3,3,4,4,4-nonafluoro-N-methyl-1-butanesulfonamide (1:1)			
BISPHENOL AF	Dermal	Rat	LD50 > 2,000 mg/kg
BISPHENOL AF	Ingestion	Rat	LD50 > 2,000 mg/kg
Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Silica	Ingestion	Rat	LD50 > 5,110 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		
Phosphonium, tributyl(2-methoxypropyl)-, salt with 1,1,2,2,3,3,4,4,4-nonafluoro-	Rabbit	Minimal irritation		

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N-methyl-1-butanesulfonamide (1:1)		
BISPHENOL AF	Rabbit	No significant irritation
Silica	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
Phosphonium, tributyl(2-methoxypropyl)-, salt with 1,1,2,2,3,3,4,4,4-nonafluoro-	Rabbit	Severe irritant
N-methyl-1-butanesulfonamide (1:1)		
BISPHENOL AF	Rabbit	Corrosive
Silica	Rabbit	No significant irritation

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	
Phosphonium, tributyl(2-methoxypropyl)-, salt with 1,1,2,2,3,3,4,4,4-nonafluoro-	Guinea	Not classified
N-methyl-1-butanesulfonamide (1:1)	pig	
BISPHENOL AF	Guinea	Not classified
	pig	
Silica	Human	Not classified
	and	
	animal	

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
Phosphonium, tributyl(2-methoxypropyl)-, salt with 1,1,2,2,3,3,4,4,4-	In Vitro	Some positive data exist, but the data are not
nonafluoro-N-methyl-1-butanesulfonamide (1:1)		sufficient for classification
BISPHENOL AF	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Silica	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Silica	Not	Mouse	Some positive data exist, but the data are not
	Specified		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	NOAEL not available	
PHENOL, 4,4'-[2,2,2-TRIFLUORO-1-	Ingestion	Toxic to male reproduction	similar	NOAEL not	

(TRIFLUOROMETHYL)ETHYLIDENE]B IS-,ION(1), TRIBUTYL(2- METHOXYPROPYL)PHOSPHONIUM, SODIUM SALT			compoun ds	available	
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	Not classified for development	Rat	NOAEL 100 mg/kg/day	premating into lactation
BISPHENOL AF	Ingestion	Toxic to female reproduction	Rat	LOAEL 30 mg/kg/day	premating into lactation
BISPHENOL AF	Ingestion	Toxic to male reproduction	Rat	LOAEL 30 mg/kg/day	55 days
Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

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	Not classified	Rat	NOAEL 100 mg/kg/day	28 days

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		kidney and/or bladder				
Silica	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. 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.

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: *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).

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

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