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™ Thermal Bonding Film 583

Product Identification Numbers

LA-M100-3627-9	44-0004-1780-6	44-0011-1555-7	44-0011-1557-3	44-0011-1558-1
44-0011-1559-9	44-0011-1560-7	44-0011-1561-5	44-0011-1562-3	44-0011-1565-6
44-0011-1566-4	44-0011-1567-2	44-0011-1568-0	44-0011-1573-0	44-0011-1582-1
44-0012-0337-9	70-0000-0535-8	70-0025-1111-4	70-0025-1113-0	70-0025-1124-7
70-0025-1133-8	70-0025-1135-3	70-0025-1156-9	70-0060-0418-1	70-0060-0721-8
70-0060-2627-5	70-0060-4361-9	70-0060-4362-7	70-0060-4363-5	70-0062-6963-6
70-0062-6964-4	70-0062-6966-9	70-0160-0205-0	70-0715-4594-4	80-0014-2685-9
80-0014-2743-6	80-0014-4538-8	AT-0106-3826-3	DT-0001-0234-3	DT-0001-0406-7
DT-0001-1206-0	DT-0001-1389-4	DT-0001-1476-9	GT-3000-6252-5	JT-1400-0686-0
RT-0009-3607-5	UU-0130-6857-0	XT-0016-2469-8		

1.2. Recommended use and restrictions on use

Intended Use
Bonding

Specific Use
bonding film

Restrictions on use
Not applicable

1.3. Supplier's details

Company:	3M Canada Company
Division:	Electronics Materials Solutions 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.
Reproductive Toxicity: Category 2.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion |Health Hazard |

Pictograms



Hazard Statements

Causes serious eye damage. Suspected of damaging 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, eye protection, and face protection.

Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Immediately call a POISON CENTRE or doctor. Immediately call a POISON CENTER or doctor.

Storage:
Store locked up.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Acrylonitrile-butadiene polymer	9003-18-3	40 - 50	2-Propenenitrile, polymer with 1,3-butadiene
p-tert-butylphenol-formaldehyde resin	25085-50-1	20 - 25	Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol
Glycerol esters of rosin acids	8050-31-5	1 - 15	Resin acids and Rosin acids, esters with

			glycerol
tackifier	Trade Secret	1 - 15	Not Applicable
Zinc oxide	1314-13-2	1 - 5	Zinc oxide (ZnO)
Salicylic acid	69-72-7	1 - 5 Trade Secret *	Benzoic acid, 2-hydroxy-
bis(p-tert-octylphenyl)amine	15721-78-5	< 3	No Data Available
potassium rosinate	61790-50-9	< 1	Resin acids and Rosin acids, potassium salts
P-tert-butylphenol	98-54-4	0.1 - 1.0 Trade Secret *	Phenol, 4-(1,1-dimethylethyl)-
additive	Trade Secret	<= 1	Not Applicable
liner	None	0	Not Applicable

tackifier is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
additive is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

*The concentration (exact or range) of this component 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:
Wash with soap and water. If you are concerned, get medical advice.

Eye Contact:
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:
Rinse mouth. If you feel unwell, get medical attention.

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

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
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

Oxides of Nitrogen	During Combustion
Oxides of Zinc	During Combustion

5.4. Special protection actions for fire-fighters
Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). 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. Ventilate the area with fresh air. 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.

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
For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Avoid breathing 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. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store locked up.

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
Zinc oxide	1314-13-2	ACGIH	TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 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
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 clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Polymer laminate

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

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
Half facepiece or full facepiece supplied-air respirator

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Specific Physical Form:	Film
Colour	Colourless
Odour	Slight Phenolic
Odour threshold	*Not Applicable*
pH	*Not Applicable*
Melting point/Freezing point	*No Data Available*
Boiling point	*Not Applicable*
Flash Point	>=93.3 ºC [*Test Method:*Closed Cup]
Evaporation rate	*Not Applicable*
Flammability	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*

Vapour Pressure	*Not Applicable*
Relative Vapour Density	*Not Applicable*
Density	*No Data Available*
Relative density	1.06 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*Not Applicable*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*Not Applicable*
Kinematic Viscosity	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Percent volatile	*Not Applicable*
VOC Less H2O & Exempt Solvents	*Not Applicable*

Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

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.

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced) in sensitive people: Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
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:
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation. 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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Acrylonitrile-butadiene polymer	Dermal	Rabbit	LD50 > 15,000 mg/kg
Acrylonitrile-butadiene polymer	Ingestion	Rat	LD50 > 30,000 mg/kg
p-tert-butylphenol-formaldehyde resin	Dermal		LD50 estimated to be > 5,000 mg/kg
p-tert-butylphenol-formaldehyde resin	Ingestion	Rat	LD50 5,660 mg/kg
tackifier	Ingestion	Mouse	LD50 > 2,000 mg/kg
Glycerol esters of rosin acids	Dermal	Rabbit	LD50 > 5,000 mg/kg
Glycerol esters of rosin acids	Ingestion	Rat	LD50 > 2,000 mg/kg
Zinc oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Zinc oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Salicylic acid	Dermal	Rat	LD50 > 2,000 mg/kg
Salicylic acid	Ingestion	Rat	LD50 891 mg/kg
bis(p-tert-octylphenyl)amine	Dermal	Rat	LD50 > 2,000 mg/kg
bis(p-tert-octylphenyl)amine	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
bis(p-tert-octylphenyl)amine	Ingestion	Rat	LD50 > 5,000 mg/kg
potassium rosinate	Dermal	Rat	LD50 > 2,000 mg/kg
potassium rosinate	Ingestion	Rat	LD50 > 2,000 mg/kg
P-tert-butylphenol	Dermal	Rabbit	LD50 2,318 mg/kg
P-tert-butylphenol	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.6 mg/l
P-tert-butylphenol	Ingestion	Rat	LD50 4,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

Acrylonitrile-butadiene polymer	Professional judgement	No significant irritation
Glycerol esters of rosin acids	Rabbit	Minimal irritation
Zinc oxide	Human and animal	No significant irritation
Salicylic acid	Rabbit	No significant irritation
bis(p-tert-octylphenyl)amine	Rabbit	No significant irritation
potassium rosinate	Rabbit	No significant irritation
P-tert-butylphenol	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Acrylonitrile-butadiene polymer	Professional judgement	No significant irritation
Glycerol esters of rosin acids	Rabbit	Mild irritant
Zinc oxide	Rabbit	Mild irritant
Salicylic acid	Rabbit	Corrosive
bis(p-tert-octylphenyl)amine	Rabbit	No significant irritation
potassium rosinate	Rabbit	Moderate irritant
P-tert-butylphenol	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
p-tert-butylphenol-formaldehyde resin	Human	Some positive data exist, but the data are not sufficient for classification
Glycerol esters of rosin acids	Guinea pig	Not classified
Zinc oxide	Guinea pig	Not classified
Salicylic acid	Mouse	Not classified
bis(p-tert-octylphenyl)amine	Mouse	Not classified
potassium rosinate	Mouse	Not classified
P-tert-butylphenol	Human and animal	Not classified

Photosensitization

Name	Species	Value
Salicylic acid	Mouse	Not sensitizing

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
Glycerol esters of rosin acids	In Vitro	Not mutagenic
Zinc oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc oxide	In vivo	Some positive data exist, but the data are not sufficient for classification
Salicylic acid	In Vitro	Not mutagenic
Salicylic acid	In vivo	Not mutagenic
bis(p-tert-octylphenyl)amine	In Vitro	Not mutagenic
P-tert-butylphenol	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
P-tert-butylphenol	Ingestion	Multiple animal species	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
Zinc oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation
Salicylic acid	Ingestion	Toxic to development	Rat	NOAEL 75 mg/kg/day	during organogenesis
bis(p-tert-octylphenyl)amine	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
P-tert-butylphenol	Ingestion	Not classified for male reproduction	Rat	NOAEL 600 mg/kg/day	2 generation
P-tert-butylphenol	Ingestion	Not classified for development	Rat	NOAEL 70 mg/kg/day	2 generation
P-tert-butylphenol	Ingestion	Toxic to female reproduction	Rat	NOAEL 200 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
potassium rosinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
P-tert-butylphenol	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	LOAEL 5.6 mg/l	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Glycerol esters of rosin acids	Ingestion	liver	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	heart	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	skin	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	endocrine system	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	blood	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	bone marrow	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin	Ingestion	immune system	Not classified	Rat	NOAEL	90 days

acids					5,000 mg/kg/day	
Glycerol esters of rosin acids	Ingestion	muscles	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	nervous system	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	eyes	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Glycerol esters of rosin acids	Ingestion	respiratory system	Not classified	Rat	NOAEL 5,000 mg/kg/day	90 days
Zinc oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
Zinc oxide	Ingestion	endocrine system	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Zinc oxide	Ingestion	hematopoietic system	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Zinc oxide	Ingestion	kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Salicylic acid	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	3 days
bis(p-tert-octylphenyl)amine	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
bis(p-tert-octylphenyl)amine	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
bis(p-tert-octylphenyl)amine	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
bis(p-tert-octylphenyl)amine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
P-tert-butylphenol	Ingestion	endocrine system	Not classified	Rat	NOAEL 600 mg/kg/day	2 generation
P-tert-butylphenol	Ingestion	liver	Not classified	Rat	NOAEL 600 mg/kg/day	2 generation
P-tert-butylphenol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 600 mg/kg/day	2 generation
P-tert-butylphenol	Ingestion	blood	Not classified	Rat	NOAEL 200 mg/kg	6 weeks

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. 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.

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