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™ Scotch-Weld™ Flexible Acrylic Adhesive 8610NS, Black, Part B

Product Identification Numbers
62-2869-8530-4 62-2869-9530-3

1.2. Recommended use and restrictions on use

Intended Use
Adhesive

Restrictions on use
Not applicable

1.3. Supplier's details

Company:	3M Canada Company
Division:	Industrial Adhesives and Tapes 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

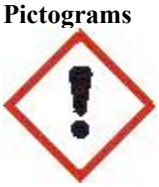
SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1A.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms



Hazard Statements

Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary statements

Prevention:
Avoid breathing vapours. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and eye protection.

Response:
IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical advice. Take off contaminated clothing and wash it before reuse.

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

2.3. Other hazards
None known.

26% of the mixture consists of ingredients of unknown acute oral toxicity.
26% of the mixture consists of ingredients of unknown acute dermal toxicity.
20% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	7328-22-5	10 - 30	No Data Available
Kaolin	1332-58-7	7 - 30 Trade Secret *	Kaolin
Hydroxyethyl Methacrylate	868-77-9	4.8 - 17	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester
Butadiene-Acrylonitrile Polymer	9003-18-3	1 - 15	2-Propenenitrile, polymer with 1,3-butadiene
Cyclohexyl methacrylate	101-43-9	4.9 - 15	No Data Available
Proprietary polymer	Trade Secret	4 - 15	Not Applicable
Acrylic Copolymer	Trade Secret	0.6 - 10	Not Applicable
Amorphous Silica	67762-90-7	0.1 - 5	Siloxanes and Silicones, di-Me, reaction products with silica
Phosphate methacrylate	1627542-04-4	< 3	No Data Available
Benzenemethanaminium, N,N,N-tributyl-, chloride	23616-79-7	< 1	Benzenemethanaminium, N,N,N-tributyl-, chloride
Carbon Black	1333-86-4	<= 0.9	Carbon black

DIETHYLENE GLYCOL, MONOMETHACRYLATE	2351-43-1	<= 0.25	No Data Available
COPPER NAPHTHENATES	1338-02-9	<= 0.2	No Data Available
Methyl Methacrylate	80-62-6	<= 0.15	2-Propenoic acid, 2-methyl-, methyl ester

Acrylic Copolymer is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.
Proprietary polymer is a non-hazardous material according to WHMIS criteria. Specific information has been withheld as a trade secret.

Carbon black is inextricably bound in this product. Exposure to carbon black is not expected during product use

*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:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

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. 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
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Oxides of Nitrogen	During Combustion

5.4. Special protection 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. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

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
Kaolin	1332-58-7	ACGIH	TWA(respirable fraction):2 mg/m3	
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	
Copper, dusts and mists, as Cu	1338-02-9	ACGIH	TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or	

			mist):1 mg/m3	
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	Dermal Sensitizer

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:
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: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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	Liquid
Specific Physical Form:	Paste
Colour	Black
Odour	Mild Acrylate
Odour threshold	*No Data Available*

pH	*Not Applicable*
Melting point/Freezing point	*Not Applicable*
Boiling point	*No Data Available*
Flash Point	> 93.3 ºC [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapour Pressure	*No Data Available*
Relative Vapour Density	*No Data Available*
Density	1.11 g/ml
Relative density	1.11 [*Ref Std:*WATER=1]
Water solubility	Nil
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	54,000 mm2/sec
Volatile Organic Compounds	<=392 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*EU VOC Content]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	<=10 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A]
VOC Less H2O & Exempt Solvents	<=392 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied]
VOC Less H2O & Exempt Solvents	<=1 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A]
Molecular weight	*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
Sparks and/or flames

10.5. Incompatible materials
Amines
Strong acids
Strong bases
Strong oxidizing agents

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:
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:
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.

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

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	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	Rat	LD50 > 2,000 mg/kg
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Kaolin	Dermal		LD50 estimated to be > 5,000 mg/kg
Kaolin	Ingestion	Human	LD50 > 15,000 mg/kg
Hydroxyethyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydroxyethyl Methacrylate	Ingestion	Rat	LD50 5,564 mg/kg

Cyclohexyl methacrylate	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexyl methacrylate	Ingestion	Rat	LD50 12,900 mg/kg
Cyclohexyl methacrylate	Inhalation-Vapor	similar compounds	LC50 estimated to be 20 - 50 mg/l
Butadiene-Acrylonitrile Polymer	Dermal	Rabbit	LD50 > 15,000 mg/kg
Butadiene-Acrylonitrile Polymer	Ingestion	Rat	LD50 > 30,000 mg/kg
Amorphous Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Amorphous Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Amorphous Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Phosphate methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Phosphate methacrylate	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg
Benzenemethanaminium, N,N,N-tributyl-, chloride	Ingestion	Not available	LD50 500 mg/kg
DIETHYLENE GLYCOL, MONOMETHACRYLATE	Dermal	similar compounds	LD50 > 5,000 mg/kg
DIETHYLENE GLYCOL, MONOMETHACRYLATE	Ingestion	similar compounds	LD50 5,564 mg/kg
COPPER NAPHTHENATES	Dermal	similar compounds	LD50 > 2,000 mg/kg
COPPER NAPHTHENATES	Ingestion	similar compounds	LD50 >300, < 2,000 mg/kg
Methyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methyl Methacrylate	Inhalation-Vapor (4 hours)	Rat	LC50 29.8 mg/l
Methyl Methacrylate	Ingestion	Rat	LD50 7,900 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Rabbit	Mild irritant
Kaolin	Professional judgement	No significant irritation
Hydroxyethyl Methacrylate	Rabbit	Minimal irritation
Cyclohexyl methacrylate	Rabbit	Minimal irritation
Butadiene-Acrylonitrile Polymer	Professional judgement	No significant irritation
Amorphous Silica	Rabbit	No significant irritation
Phosphate methacrylate	Professional judgement	No significant irritation
Carbon Black	Rabbit	No significant irritation
Benzenemethanaminium, N,N,N-tributyl-, chloride	Guinea pig	Corrosive
DIETHYLENE GLYCOL, MONOMETHACRYLATE	similar compounds	Minimal irritation
COPPER NAPHTHENATES	Rabbit	No significant irritation
Methyl Methacrylate	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Rabbit	No significant irritation
Kaolin	Professional judgement	No significant irritation
Hydroxyethyl Methacrylate	Rabbit	Moderate irritant
Cyclohexyl methacrylate	In vitro data	Severe irritant
Butadiene-Acrylonitrile Polymer	Professional judgement	No significant irritation
Amorphous Silica	Rabbit	No significant irritation
Phosphate methacrylate	Professional judgement	Corrosive
Carbon Black	Rabbit	No significant irritation
Benzenemethanaminium, N,N,N-tributyl-, chloride	similar health hazards	Corrosive
DIETHYLENE GLYCOL, MONOMETHACRYLATE	similar compounds	Moderate irritant
COPPER NAPHTHENATES	In vitro data	No significant irritation
Methyl Methacrylate	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Guinea pig	Not classified
Hydroxyethyl Methacrylate	Human and animal	Sensitizing
Cyclohexyl methacrylate	Mouse	Sensitizing
Amorphous Silica	Human and animal	Not classified
Phosphate methacrylate	Professional judgement	Sensitizing
DIETHYLENE GLYCOL, MONOMETHACRYLATE	similar compounds	Sensitizing
COPPER NAPHTHENATES	Guinea pig	Not classified
Methyl Methacrylate	Human and animal	Sensitizing

Respiratory Sensitization

Name	Species	Value
Methyl Methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	In Vitro	Not mutagenic

Hydroxyethyl Methacrylate	In vivo	Not mutagenic
Hydroxyethyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cyclohexyl methacrylate	In Vitro	Not mutagenic
Amorphous Silica	In Vitro	Not mutagenic
Phosphate methacrylate	In Vitro	Not mutagenic
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exist, but the data are not sufficient for classification
DIETHYLENE GLYCOL, MONOMETHACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Kaolin	Inhalation	Multiple animal species	Not carcinogenic
Amorphous Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon Black	Dermal	Mouse	Not carcinogenic
Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human and animal	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Hydroxyethyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Hydroxyethyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
Hydroxyethyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Cyclohexyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Cyclohexyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Cyclohexyl methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 500 mg/kg/day	during gestation
Amorphous Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Methyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 400	2 generation

				mg/kg/day	
Methyl Methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 450 mg/kg/day	during gestation
Methyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Cyclohexyl methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
Phosphate methacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Benzenemethanaminium, N,N,N-tributyl-, chloride	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
DIETHYLENE GLYCOL, MONOMETHACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
2-Propenoic acid, 2-methyl-, 2-(2-butoxyethoxy)ethyl ester	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Kaolin	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Kaolin	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL Not available	
Cyclohexyl methacrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Cyclohexyl methacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Cyclohexyl methacrylate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Cyclohexyl methacrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Cyclohexyl methacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000	15 weeks

					mg/kg/day	
Cyclohexyl methacrylate	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
Amorphous Silica	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Amorphous Silica	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
Methyl Methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
Methyl Methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	heart	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	skin	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	liver	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	muscles	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years

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 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 halogen acid (HCl/HF/HBr). 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: 2 **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