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(TM) Scotch-Weld(TM) Threadlocker TL42, Blue

Product Identification Numbers

62-3494-0160-4	62-3494-1060-5	62-3494-1065-4	62-3494-3960-4	62-3494-5060-1
62-3494-8360-2	HB-0040-7425-6	UU-0015-0200-2	UU-0015-0326-5	UU-0015-0371-1
UU-0015-0390-1				

1.2. Recommended use and restrictions on use

Intended Use

Structural 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

Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.
Carcinogenicity: Category 1B.
Specific Target Organ Toxicity (repeated exposure): Category 1.

2.2. Label elements

Signal word
Danger

Symbols
Exclamation mark |Health Hazard |

Pictograms



Hazard Statements

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

Causes damage to organs through prolonged or repeated exposure: respiratory system.

Precautionary statements

Prevention:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapours. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. 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 exposed or concerned: Get medical attention. Get medical attention if you feel unwell. If eye irritation persists or if skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

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.

8% of the mixture consists of ingredients of unknown acute oral toxicity.
8% of the mixture consists of ingredients of unknown acute dermal toxicity.
7% 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
Triethylene Glycol Dimethacrylate	109-16-0	30 - 60 Trade Secret *	2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester
Diisopropylnaphthalene	38640-62-9	10 - 30 Trade Secret *	Naphthalene, bis(1-methylethyl)-
Polyester Resin	Trade Secret	1 - 10	Not Applicable
Hydroxypropyl Methacrylate	27813-02-1	3 - 7 Trade Secret *	2-Propenoic acid, 2-methyl-, monoester

			with 1,2-propanediol
Saccharin	81-07-2	1 - 5	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
Amorphous Silica	68909-20-6	0.9 - 3.5	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica
Cumene Hydroperoxide	80-15-9	0.5 - 1.5 Trade Secret *	Hydroperoxide, 1-methyl-1-phenylethyl
1-Acetyl-2-Phenylhydrazine	114-83-0	0.1 - 1 Trade Secret *	Acetic acid, 2-phenylhydrazide
2,2'-(p-Tolylimino)diethanol	3077-12-1	< 1	Ethanol, 2,2'-[(4-methylphenyl)imino]bis-
Ethylene Glycol	107-21-1	< 1	1,2-Ethanediol
Titanium Dioxide	13463-67-7	0.1 - 1 Trade Secret *	Titanium oxide (TiO2)
Naphthalene, (1-methylethyl)-	29253-36-9	< 1	No Data Available
Naphthalene, tris(1-methylethyl)-	35860-37-8	< 1	No Data Available
Acrylic Acid	79-10-7	0.1 - 1 Trade Secret *	2-Propenoic acid
N,N-Dimethyl-p-toluidine	99-97-8	0.1 - 0.5 Trade Secret *	Benzenamine, N,N,4-trimethyl-
2,6,-di-tert-Butyl-p-cresol	128-37-0	<= 0.5	Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

Polyester Resin 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:
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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	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. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat. Store away from oxidizing agents. 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
Ethylene Glycol	107-21-1	ACGIH	TWA(Vapor fraction):25 ppm;STEL(Vapor fraction):50 ppm;STEL(Inhalable aerosol):10 mg/m3	
2,6,-di-tert-Butyl-p-cresol	128-37-0	ACGIH	TWA(inhalable fraction and vapor):2 mg/m3	
Titanium Dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	
Acrylic Acid	79-10-7	ACGIH	TWA:2 ppm	Danger of cutaneous absorption
Cumene Hydroperoxide	80-15-9	AIHA	TWA:6 mg/m3(1 ppm)	SKIN
N,N-Dimethyl-p-toluidine	99-97-8	AIHA	TWA:0.5 ppm	

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 vapors or contact respirator manufacturer for appropriate gas/vapor respirator
Half facepiece or full facepiece air-purifying respirator suitable for 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:	Thixotropic Liquid
Colour	Blue
Odour	Mild Solvent
Odour threshold	*No Data Available*
pH	*Not Applicable*
Melting point/Freezing point	*Not Applicable*
Boiling point	>=148.9 ºC [@ 101,324.72 Pa]
Flash Point	>=100 ºC [*Test Method:*Tagliabue Closed Cup]
Evaporation rate	Negligible
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapour Pressure	<=5 mmHg
Relative Vapour Density	1.01 [*Ref Std:*AIR=1]
Density	1.1 g/ml [@ 20 ºC]
Relative density	1.1 [@ 20 ºC] [*Ref Std:*WATER=1]
Water solubility	Negligible
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	12,727 mm2/sec
Volatile Organic Compounds	*No Data Available*
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	< 15 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Molecular weight	*No Data Available*

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
Light

10.5. Incompatible materials
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. May cause additional health effects (see below).

Skin Contact:
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.
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. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:
Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation

Dimethyl-p-toluidine	99-97-8	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Titanium dioxide	13463-67-7	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
Triethylene Glycol Dimethacrylate	Dermal	Mouse	LD50 > 2,000
Triethylene Glycol Dimethacrylate	Ingestion	Rat	LD50 10,837 mg/kg
Diisopropylnaphthalene	Dermal	Rat	LD50 > 4,500 mg/kg
Diisopropylnaphthalene	Inhalation-Dust/Mist	Rat	LC50 > 5.64 mg/l
Diisopropylnaphthalene	Ingestion	Rat	LD50 4,130 mg/kg
Hydroxypropyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydroxypropyl Methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
Amorphous Silica	Ingestion	Rat	LD50 > 2,000 mg/kg
Amorphous Silica	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Saccharin	Ingestion	Mouse	LD50 17,000 mg/kg
Saccharin	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Cumene Hydroperoxide	Dermal	Rat	LD50 500 mg/kg
Cumene Hydroperoxide	Inhalation-Vapor (4 hours)	Rat	LC50 1.4 mg/l
Cumene Hydroperoxide	Ingestion	Rat	LD50 382 mg/kg
Acrylic Acid	Dermal	Rabbit	LD50 640 mg/kg
Acrylic Acid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3.8 mg/l
Acrylic Acid	Ingestion	Rat	LD50 1,250 mg/kg
Ethylene Glycol	Ingestion	Human	LD50 1,600 mg/kg
Ethylene Glycol	Inhalation-Dust/Mist (4 hours)	Other	LC50 estimated to be 5 - 12.5 mg/l
Ethylene Glycol	Dermal	Rabbit	9,530 mg/kg
1-Acetyl-2-Phenylhydrazine	Dermal		LD50 estimated to be 200 - 1,000 mg/kg
1-Acetyl-2-Phenylhydrazine	Ingestion	Mouse	LD50 270 mg/kg
2,6,-di-tert-Butyl-p-cresol	Dermal	Rat	LD50 > 2,000 mg/kg
2,6,-di-tert-Butyl-p-cresol	Ingestion	Rat	LD50 > 2,930 mg/kg
N,N-Dimethyl-p-toluidine	Ingestion	Mouse	LD50 140 mg/kg
N,N-Dimethyl-p-toluidine	Dermal	Rabbit	LD50 > 2,000 mg/kg
N,N-Dimethyl-p-toluidine	Inhalation-Dust/Mist (4 hours)	Rat	LC50 1.4 mg/l
2,2'-(p-Tolylimino)diethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2,2'-(p-Tolylimino)diethanol	Ingestion	Rat	LD50 959 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Triethylene Glycol Dimethacrylate	Rabbit	No significant irritation
Diisopropylnaphthalene	Rabbit	Minimal irritation
Hydroxypropyl Methacrylate	Rabbit	Minimal irritation
Amorphous Silica	Rabbit	No significant irritation
Saccharin	similar compounds	No significant irritation
Cumene Hydroperoxide	official classification	Corrosive
Acrylic Acid	Rabbit	Corrosive
Ethylene Glycol	Rabbit	Minimal irritation
2,6,-di-tert-Butyl-p-cresol	Human and animal	Minimal irritation
N,N-Dimethyl-p-toluidine	Rabbit	No significant irritation
2,2'-(p-Tolylimino)diethanol	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Triethylene Glycol Dimethacrylate	Rabbit	No significant irritation
Diisopropylnaphthalene	Rabbit	Severe irritant
Hydroxypropyl Methacrylate	Rabbit	Moderate irritant
Amorphous Silica	Rabbit	No significant irritation
Saccharin	similar compounds	No significant irritation
Cumene Hydroperoxide	official classification	Corrosive
Acrylic Acid	Rabbit	Corrosive
Ethylene Glycol	Rabbit	Mild irritant
2,6,-di-tert-Butyl-p-cresol	Rabbit	Mild irritant
N,N-Dimethyl-p-toluidine	Rabbit	No significant irritation
2,2'-(p-Tolylimino)diethanol	Rabbit	Corrosive
Titanium Dioxide	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Triethylene Glycol Dimethacrylate	Mouse	Sensitizing
Diisopropylnaphthalene	Guinea pig	Not classified
Hydroxypropyl Methacrylate	Human and animal	Sensitizing
Amorphous Silica	Guinea pig	Not classified
Saccharin	Mouse	Not classified
Acrylic Acid	Guinea pig	Not classified
Ethylene Glycol	Human	Not classified
1-Acetyl-2-Phenylhydrazine	Professional judgement	Sensitizing
2,6,-di-tert-Butyl-p-cresol	Human	Not classified
N,N-Dimethyl-p-toluidine	Guinea pig	Sensitizing
2,2'-(p-Tolylimino)diethanol	Mouse	Sensitizing
Titanium Dioxide	Human and	Not classified

	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
Triethylene Glycol Dimethacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diisopropylnaphthalene	In Vitro	Not mutagenic
Diisopropylnaphthalene	In vivo	Not mutagenic
Hydroxypropyl Methacrylate	In vivo	Not mutagenic
Hydroxypropyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Amorphous Silica	In Vitro	Not mutagenic
Saccharin	In Vitro	Not mutagenic
Saccharin	In vivo	Some positive data exist, but the data are not sufficient for classification
Cumene Hydroperoxide	In vivo	Not mutagenic
Cumene Hydroperoxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Acrylic Acid	In vivo	Not mutagenic
Acrylic Acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethylene Glycol	In Vitro	Not mutagenic
Ethylene Glycol	In vivo	Not mutagenic
1-Acetyl-2-Phenylhydrazine	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,6,-di-tert-Butyl-p-cresol	In Vitro	Not mutagenic
2,6,-di-tert-Butyl-p-cresol	In vivo	Not mutagenic
N,N-Dimethyl-p-toluidine	In vivo	Not mutagenic
N,N-Dimethyl-p-toluidine	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,2'-(p-Tolylimino)diethanol	In Vitro	Not mutagenic
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Triethylene Glycol Dimethacrylate	Dermal	Mouse	Not carcinogenic
Diisopropylnaphthalene	Ingestion	Rat	Not carcinogenic
Saccharin	Ingestion	Mouse	Not carcinogenic
Acrylic Acid	Ingestion	Rat	Not carcinogenic
Acrylic Acid	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Ethylene Glycol	Ingestion	Multiple animal species	Not carcinogenic
2,6,-di-tert-Butyl-p-cresol	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
N,N-Dimethyl-p-toluidine	Ingestion	Multiple animal species	Carcinogenic
Titanium Dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium Dioxide	Inhalation	Rat	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure

					Duration
Triethylene Glycol Dimethacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Triethylene Glycol Dimethacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	5 weeks
Triethylene Glycol Dimethacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Diisopropylnaphthalene	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	during organogenesis
Hydroxypropyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Hydroxypropyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
Hydroxypropyl Methacrylate	Ingestion	Not classified for development	Rat	NOAEL 1,000 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
Saccharin	Ingestion	Not classified for female reproduction	Mouse	NOAEL 714 mg/kg/day	6 generation
Saccharin	Ingestion	Not classified for male reproduction	Mouse	NOAEL 714 mg/kg/day	6 generation
Saccharin	Ingestion	Not classified for development	Mouse	NOAEL 2,000 mg/kg/day	during gestation
Cumene Hydroperoxide	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during gestation
Acrylic Acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
Acrylic Acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 460 mg/kg/day	2 generation
Acrylic Acid	Inhalation	Not classified for development	Rat	NOAEL 1.1 mg/l	during organogenesis
Acrylic Acid	Ingestion	Not classified for development	Rat	NOAEL 53 mg/kg/day	2 generation
Ethylene Glycol	Dermal	Not classified for development	Mouse	NOAEL 3,549 mg/kg/day	during organogenesis
Ethylene Glycol	Ingestion	Not classified for development	Mouse	LOAEL 750 mg/kg/day	during organogenesis
Ethylene Glycol	Inhalation	Not classified for development	Mouse	NOAEL 1,000 mg/kg/day	during organogenesis
2,6,-di-tert-Butyl-p-cresol	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6,-di-tert-Butyl-p-cresol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6,-di-tert-Butyl-p-cresol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	2 generation
N,N-Dimethyl-p-toluidine	Ingestion	Not classified for female reproduction	Rat	NOAEL 60 mg/kg/day	90 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Diisopropylnaphthalene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Hydroxypropyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	similar compounds	NOAEL Not available	

Cumene Hydroperoxide	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
Cumene Hydroperoxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
Cumene Hydroperoxide	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Acrylic Acid	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
Ethylene Glycol	Ingestion	heart | nervous system | kidney and/or bladder | respiratory system	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Ethylene Glycol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Ethylene Glycol	Ingestion	liver	Not classified	Human	NOAEL Not available	poisoning and/or abuse
2,2'-(p-Tolylimino)diethanol	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
Triethylene Glycol Dimethacrylate	Dermal	liver	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	skin	Not classified	Mouse	NOAEL 100 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	gastrointestinal tract	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	hematopoietic system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	nervous system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	kidney and/or bladder	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Dermal	respiratory system	Not classified	Mouse	NOAEL 2,000 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Ingestion	liver	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Triethylene Glycol Dimethacrylate	Ingestion	eyes	Not classified	Rat	NOAEL 3,849 mg/kg/day	13 weeks
Diisopropylnaphthalene	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 170 mg/kg/day	6 months
Diisopropylnaphthalene	Ingestion	liver	Not classified	Rat	NOAEL 170 mg/kg/day	6 months
Diisopropylnaphthalene	Ingestion	immune system	Not classified	Rat	NOAEL 170 mg/kg/day	6 months

Diisopropylnaphthalene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 170 mg/kg/day	6 months
Hydroxypropyl Methacrylate	Inhalation	blood	Not classified	Rat	NOAEL 0.5 mg/l	21 days
Hydroxypropyl Methacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Hydroxypropyl Methacrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	41 days
Amorphous Silica	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 0.035 mg/l	13 weeks
Amorphous Silica	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.035 mg/l	13 weeks
Amorphous Silica	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.035 mg/l	13 weeks
Amorphous Silica	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	5 weeks
Saccharin	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 1,500 mg/kg/day	1 years
Saccharin	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 7,500 mg/kg/day	1 months
Cumene Hydroperoxide	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	liver	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	immune system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	nervous system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	eyes	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Cumene Hydroperoxide	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.031 mg/l	3 months
Ethylene Glycol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene Glycol	Ingestion	vascular system	Not classified	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene Glycol	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	hematopoietic	Not classified	Rat	NOAEL	2 years

		system			1,000 mg/kg/day	
Ethylene Glycol	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	respiratory system	Not classified	Mouse	NOAEL 12,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	skin	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	endocrine system	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	bone, teeth, nails, and/or hair	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	nervous system	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	eyes	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
1-Acetyl-2-Phenylhydrazine	Ingestion	hematopoietic system	Causes damage to organs through prolonged or repeated exposure	Dog	LOAEL 4 mg/kg/day	7 days
2,6,-di-tert-Butyl-p-cresol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	28 days
2,6,-di-tert-Butyl-p-cresol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	2 generation
2,6,-di-tert-Butyl-p-cresol	Ingestion	blood	Not classified	Rat	LOAEL 420 mg/kg/day	40 days
2,6,-di-tert-Butyl-p-cresol	Ingestion	endocrine system	Not classified	Rat	NOAEL 25 mg/kg/day	2 generation
2,6,-di-tert-Butyl-p-cresol	Ingestion	heart	Not classified	Mouse	NOAEL 3,480 mg/kg/day	10 weeks
N,N-Dimethyl-p-toluidine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 20 mg/kg/day	3 months
N,N-Dimethyl-p-toluidine	Ingestion	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 20 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	liver	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	immune system	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	heart	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	skin	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	endocrine system	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	muscles	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	nervous system	Not classified	Rat	NOAEL 60	2 years

					mg/kg/day	
N,N-Dimethyl-p-toluidine	Ingestion	eyes	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
N,N-Dimethyl-p-toluidine	Ingestion	vascular system	Not classified	Rat	NOAEL 60 mg/kg/day	2 years
Titanium Dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium Dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

Name	Value
Diisopropylnaphthalene	Aspiration hazard

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. 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 material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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: 2 **Flammability:** 1 **Instability:** 1 **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