



Safety Data Sheet

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Document group:	28-7782-7	Version number:	4.06
Issue Date:	2021/10/15	Supersedes Date:	2020/10/21

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

3M(TM) Adhesive Sealant 760 UV, White, Gray, and Black

Product Identification Numbers

23-0000-9066-4	62-5277-3932-0	62-5277-5232-3	62-5277-5233-1	62-5277-5236-4
62-5277-5237-2	62-5277-8532-3	62-5277-9532-2	62-5278-1630-0	62-5278-3932-8
62-5278-5232-1	62-5278-5233-9	62-5278-5236-2	62-5278-5237-0	62-5278-8532-1
62-5278-8533-9	62-5278-9532-0	62-5279-3932-6	62-5279-3936-7	62-5279-5232-9
62-5279-5233-7	62-5279-5236-0	62-5279-5237-8	CR-1808-1185-1	DE-2729-2834-7
DE-2729-2835-4	DE-2729-2838-8	DE-2729-2839-6	DE-2729-2842-0	DE-2729-2843-8
DE-2729-2846-1	DE-2729-2847-9	DE-2729-2850-3	DE-2729-2851-1	DE-2729-2854-5
DE-2729-2855-2	FI-3000-0001-0	FI-3000-0257-8	FI-3000-0423-6	GT-5000-9024-3
GT-5000-9025-0	GT-5000-9026-8	GT-5000-9027-6	HB-0040-9059-1	HB-0041-0002-8
HB-0041-0003-6	HB-0041-0004-4	HB-0041-0005-1	HB-0041-0006-9	HB-0041-0137-2
HB-0041-0138-0	HB-0041-0139-8	HB-0041-0140-6	HB-0041-0141-4	HB-0041-0142-2
HB-0041-5756-4	HB-0041-5757-2	HB-0041-5758-0	HB-0041-5759-8	HB-0041-5768-9
HB-0041-5769-7	HB-0045-9282-8	HB-0046-2186-6	HB-0046-2454-8	HB-0046-2464-7
JS-3000-4985-0	JS-3000-4987-6	UU-0030-8338-1	UU-0030-8339-9	UU-0030-8340-7

1.2. Recommended use and restrictions on use

Intended Use

Sealant

Specific Use

One component sealant without isocyanates which forms permanent elastic bonds.

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

SECTION 2: Hazard identification**2.1. Classification of the substance or mixture**

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

2.2. Label elements**Signal word**

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms**Hazard statements**

May cause an allergic skin reaction. May damage fertility or the unborn child.

Precautionary statements**Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Calcium Carbonate	471-34-1	25 - 45	Carbonic acid calcium salt (1:1)
POLY[OXY(METHYL-1,2-	75009-88-0	20 - 30	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-

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ETHANEDIYL], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]-			[3-(dimethoxymethylsilyl)propyl]-.omega.-[3-(dimethoxymethylsilyl)propoxy]-
Limestone	1317-65-3	< 15	Limestone primarily of calcium carbonate.
Titanium Dioxide	13463-67-7	< 15	Titanium oxide (TiO ₂)
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	7 - 13 Trade Secret *	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich
Calcium Oxide	1305-78-8	1 - 5	Calcium oxide (CaO)
Carbon Black (nanomaterial)	1333-86-4	< 2	Carbon black
Fatty Acids, C16-18	67701-03-5	< 2	No Data Available
Iron Oxide (Fe ₃ O ₄)	1317-61-9	< 2	Iron oxide (Fe ₃ O ₄)
SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS	70775-94-9	< 2	Sulfonic acids, C10-18-alkane, Ph esters
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	0.5 - 1.5 Trade Secret *	1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]-
Dioctyltinbis(acetylacetonate)	54068-28-9	< 1	Tin, dioctylbis(2,4-pentanedionato-.kappa.O ₂ ,.kappa.O ₄)-
Vinyltrimethoxysilane	2768-02-7	< 1	Silane, ethenyltrimethoxy-
Hindered Amine	63843-89-0	< 0.2	No Data Available
Copper	7440-50-8	< 0.005	Copper

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

*The actual concentration of this ingredient has been withheld as a trade secret.

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

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

Eye Contact:

No need for first aid is anticipated.

If Swallowed:

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

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

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

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

Not applicable.

SECTION 5: Fire-fighting measures**5.1. Suitable extinguishing media**

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
 Carbon dioxide
 Hydrogen Gas
 Irritant Vapours or Gases
 Oxides of Nitrogen

Condition

During Combustion
 During Combustion
 During Combustion
 During Combustion
 During Combustion

5.3. Special protective actions for fire-fighters

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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. Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. 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
Calcium Oxide	1305-78-8	ACGIH	TWA:2 mg/m3	
Carbon Black (nanomaterial)	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	

Titanium Dioxide	13463-67-7	ACGIH	TWA:10 mg/m3	
TIN, ORGANIC COMPOUNDS	54068-28-9	ACGIH	TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3	SKIN
COPPER, DUSTS AND MISTS, AS CU	7440-50-8	ACGIH	TWA(as Cu dust or mist):1 mg/m3	
COPPER, FUME AS CU	7440-50-8	ACGIH	TWA(as Cu, fume):0.2 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

None required.

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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:	Paste
Colour	Multicolour
Odour	Slight Polyether
Odour threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>

Melting point/Freezing point	<i>No Data Available</i>
Boiling point	> 120 °C
Flash Point	No flash point
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapour Density and/or Relative Vapour Density	5 [Test Method:Estimated] [Ref Std:AIR=1]
Density	1.61 g/m3
Relative density	1.6 [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	> 200 °C
Decomposition temperature	<i>No Data Available</i>
Viscosity/Kinematic Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	
Percent volatile	0.8 % weight
VOC Less H2O & Exempt Solvents	13 g/l [Test Method:calculated SCAQMD rule 443.1]
VOC Less H2O & Exempt Solvents	0.8 % [Test Method:calculated per CARB title 2]
Molecular weight	<i>Not Applicable</i>

Nanoparticles

This material contains nanoparticles.

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

Alcohols

Water

Amines

10.6. Hazardous decomposition products**Substance**

None known.

Condition

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:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Carbon Black	1333-86-4	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

Additional Information:

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Calcium Carbonate	Dermal	Rat	LD50 > 2,000 mg/kg
Calcium Carbonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Calcium Carbonate	Ingestion	Rat	LD50 6,450 mg/kg
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]-	Dermal		LD50 estimated to be > 5,000 mg/kg
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA.-[3-(DIMETHOXYMETHYLSILYL)PROPYL]-.OMEGA.-[3-(DIMETHOXYMETHYLSILYL)PROPOXY]-	Ingestion	Rat	LD50 5,000 mg/kg

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Limestone	Dermal	Rat	LD50 > 2,000 mg/kg
Limestone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Limestone	Ingestion	Rat	LD50 6,450 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
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Dermal	Rabbit	LD50 > 3,160 mg/kg
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.5 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Rat	LD50 > 9,700 mg/kg
Calcium Oxide	Ingestion	Rat	LD50 > 2,500 mg/kg
Calcium Oxide	Dermal	similar compounds	LD50 > 2,500 mg/kg
SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS	Dermal	Rat	LD50 > 1,000 mg/kg
SULFONIC ACIDS, C10-18-ALKANE, Ph ESTERS	Ingestion	Rat	LD50 > 5,000 mg/kg
Iron Oxide (Fe3O4)	Dermal	Not available	LD50 3,100 mg/kg
Iron Oxide (Fe3O4)	Ingestion	Not available	LD50 3,700 mg/kg
Fatty Acids, C16-18	Dermal	Rabbit	LD50 > 2,000 mg/kg
Fatty Acids, C16-18	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon Black (nanomaterial)	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black (nanomaterial)	Ingestion	Rat	LD50 > 8,000 mg/kg
Vinyltrimethoxysilane	Dermal	Rabbit	LD50 3,260 mg/kg
Vinyltrimethoxysilane	Inhalation-Vapor (4 hours)	Rat	LC50 16.8 mg/l
Vinyltrimethoxysilane	Ingestion	Rat	LD50 7,120 mg/kg
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	Rabbit	LD50 > 2,000 mg/kg
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1.49, <2.44 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Rat	LD50 1,897 mg/kg
Hindered Amine	Dermal	Rat	LD50 > 3,170 mg/kg
Hindered Amine	Ingestion	Rat	LD50 1,490 mg/kg
Copper	Dermal	Rat	LD50 > 2,000 mg/kg
Copper	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
Copper	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Calcium Carbonate	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Rabbit	Minimal irritation
Calcium Oxide	Human	Corrosive
Iron Oxide (Fe3O4)	Rabbit	No significant irritation
Carbon Black (nanomaterial)	Rabbit	No significant irritation
Vinyltrimethoxysilane	Rabbit	Minimal irritation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Mild irritant
Hindered Amine	Rabbit	No significant irritation
Copper	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro data	No significant irritation
Calcium Carbonate	Rabbit	No significant irritation
Limestone	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Rabbit	Mild irritant
Calcium Oxide	Rabbit	Corrosive
Iron Oxide (Fe3O4)	Rabbit	No significant irritation
Carbon Black (nanomaterial)	Rabbit	No significant irritation
Vinyltrimethoxysilane	Rabbit	No significant irritation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Corrosive
Hindered Amine	Rabbit	Mild irritant
Copper	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Titanium Dioxide	Human and animal	Not classified
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Guinea pig	Not classified
Iron Oxide (Fe3O4)	Human	Not classified
Vinyltrimethoxysilane	Guinea pig	Not classified
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Multiple animal species	Sensitizing
Diocetylbinbis(acetylacetonate)	Mouse	Sensitizing
Hindered Amine	Guinea pig	Not classified

Photosensitization

Name	Species	Value
Hindered Amine	Guinea pig	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
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In vivo	Not mutagenic
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	In Vitro	Not mutagenic
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	In vivo	Not mutagenic
Calcium Oxide	In Vitro	Not mutagenic
Iron Oxide (Fe3O4)	In Vitro	Not mutagenic
Carbon Black (nanomaterial)	In Vitro	Not mutagenic
Carbon Black (nanomaterial)	In vivo	Some positive data exist, but the data are not sufficient for classification
Vinyltrimethoxysilane	In vivo	Not mutagenic
Vinyltrimethoxysilane	In Vitro	Some positive data exist, but the data are not sufficient for classification
Hindered Amine	In vivo	Not mutagenic
Hindered Amine	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

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Name	Route	Species	Value
Titanium Dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium Dioxide	Inhalation	Rat	Carcinogenic
Iron Oxide (Fe3O4)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Carbon Black (nanomaterial)	Dermal	Mouse	Not carcinogenic
Carbon Black (nanomaterial)	Ingestion	Mouse	Not carcinogenic
Carbon Black (nanomaterial)	Inhalation	Rat	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Calcium Carbonate	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	prematuring & during gestation
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	prematuring & during gestation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Not classified for female reproduction	Rat	NOAEL 927 mg/kg/day	2 generation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Not classified for male reproduction	Rat	NOAEL 929 mg/kg/day	2 generation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	2 generation
Vinyltrimethoxysilane	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Vinyltrimethoxysilane	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Vinyltrimethoxysilane	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring into lactation
Vinyltrimethoxysilane	Inhalation	Not classified for development	Rat	NOAEL 1.8 mg/l	during organogenesis
Diocetyl tinbis(acetylacetonate)	Ingestion	Toxic to development	Rat	NOAEL 1.8 mg/kg/day	prematuring into lactation
Hindered Amine	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	prematuring into lactation
Hindered Amine	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	36 days
Hindered Amine	Ingestion	Not classified for development	Rat	NOAEL 10 mg/kg/day	prematuring into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Calcium Carbonate	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Calcium Oxide	Inhalation	respiratory irritation	May cause respiratory irritation	Not available	NOAEL Not available	occupational exposure

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Calcium Carbonate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure

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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
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation	respiratory system hematopoietic system liver	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.5 mg/l	2 generation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	endocrine system	Not classified	Rat	NOAEL 686 mg/kg/day	90 days
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	liver kidney and/or bladder heart	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 320 mg/kg/day	90 days
Iron Oxide (Fe3O4)	Inhalation	pulmonary fibrosis pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Carbon Black (nanomaterial)	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Vinyltrimethoxysilane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL mg/l	14 weeks
Vinyltrimethoxysilane	Inhalation	hematopoietic system eyes	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
Vinyltrimethoxysilane	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	40 days
Vinyltrimethoxysilane	Ingestion	endocrine system hematopoietic system liver immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	40 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days
Hindered Amine	Ingestion	gastrointestinal tract hematopoietic system liver immune system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 2 mg/kg/day	36 days

Aspiration Hazard

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

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 manufacturer 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: 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.

Document group:	28-7782-7	Version number:	4.06
Issue Date:	2021/10/15	Supersedes Date:	2020/10/21

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