



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3M™ Detector Loop Sealant Black 5000

Product Identification Numbers

41-3706-1403-8, 78-8072-0724-2, 78-8095-4061-6, 78-8095-4063-2, 78-8118-6302-2

1.2. Recommended use and restrictions on use

Recommended use

Detector loop sealant (to fill saw cuts after installation of a vehicle detector loop), Detector loop sealant for roadways

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive Aftermarket
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Liquid: Category 3.
Serious Eye Damage/Irritation: Category 2B.
Respiratory Sensitizer: Category 1A.
Skin Sensitizer: Category 1A.
Reproductive Toxicity: Category 1B.
Carcinogenicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Health Hazard |

Pictograms



Hazard Statements

Flammable liquid and vapor.

Causes eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause cancer.

Precautionary Statements

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

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

Notes to Physician:

Not applicable

2.3. Hazards not otherwise classified

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

25% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Talc	14807-96-6	15 - 40 Trade Secret *
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]	39279-01-1	10 - 30 Trade Secret *
1-Methoxy-2-propyl acetate	108-65-6	10 - 30 Trade Secret *
Polystyrene	9003-53-6	10 - 30 Trade Secret *
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer	57451-08-8	3 - 7 Trade Secret *
Polypropylene Glycol-Toluene Diisocyanate Polymer	9057-91-4	3 - 7 Trade Secret *
Dimethyl siloxane, reaction product with silica	67762-90-7	1 - 5 Trade Secret *
Synthetic amorphous silica, fumed, crystalline free	112945-52-5	1 - 5 Trade Secret *
Carbon black	1333-86-4	<= 0.65 Trade Secret *
Dibutyltin Dilaurate	77-58-7	< 0.2 Trade Secret *
Toluene 2,4-Diisocyanate	584-84-9	< 0.1 Trade Secret *
Toluene 2,6-Diisocyanate	91-08-7	< 0.1 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition 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:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

DO NOT USE WATER In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Isocyanates	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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. 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 using non-sparking tools. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Place in a metal 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. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Vapors may travel long distances along

the ground or floor to an ignition source and flash back.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
1-Methoxy-2-propyl acetate	108-65-6	American Indust. Hygiene Assoc	TWA:50 ppm	
1-Methoxy-2-propyl acetate	108-65-6	Chemical Manufacturer Rec Guid	TWA:10 mg/m ³ ;STEL:90 ppm	
SILICA, AMORPHOUS	112945-52-5	US Dept of Labor - OSHA	TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft.	
Carbon black	1333-86-4	Amer Conf of Gov. Indust. Hyg.	TWA(inhalable fraction):3 mg/m ³	
Carbon black	1333-86-4	Chemical Manufacturer Rec Guid	TWA:0.5 mg/m ³	
Carbon black	1333-86-4	US Dept of Labor - OSHA	TWA:3.5 mg/m ³	
Talc	14807-96-6	Amer Conf of Gov. Indust. Hyg.	TWA(respirable fraction):2 mg/m ³	
Talc	14807-96-6	Chemical Manufacturer Rec Guid	TWA(as respirable dust):0.5 mg/m ³	
Talc	14807-96-6	US Dept of Labor - OSHA	TWA concentration(as total dust):0.3 mg/m ³ ;TWA concentration(respirable):0.1 mg/m ³ (2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft.	
FREE ISOCYANATES	584-84-9	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Toluene2,4-Diisocyanate	584-84-9	Amer Conf of Gov. Indust. Hyg.	TWA:0.005 ppm;STEL:0.02 ppm	Sensitizer
Toluene2,4-Diisocyanate	584-84-9	US Dept of Labor - OSHA	CEIL:0.14 mg/m ³ (0.02 ppm)	
Dimethyl siloxane, reaction product with silica	67762-90-7	Chemical Manufacturer Rec Guid	CEIL:5 mg/m ³	
SILICA, AMORPHOUS	67762-90-7	US Dept of Labor - OSHA	TWA concentration:0.8 mg/m ³ ;TWA:20 millions of particles/cu. ft.	

FREE ISOCYANATES	91-08-7	Manufacturer determined	TWA:0.005 ppm;STEL:0.02 ppm	
Toluene 2,6-Diisocyanate	91-08-7	Amer Conf of Gov. Indust. Hyg.	TWA:0.005 ppm;STEL:0.02 ppm	Sensitizer

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
 American Indust. Hygiene Assoc : American Industrial Hygiene Association
 Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
 US Dept of Labor - OSHA : United States Department of Labor - Occupational Safety and Health Administration
 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/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear 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:
 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. Wear protective gloves.
 Gloves made from the following material(s) are recommended: Neoprene
 Nitrile Rubber

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 – Nitrile

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 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

General Physical Form:	Liquid
Odor, Color, Grade:	Black caulk with mild odor.
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>

Melting point	<i>Not Applicable</i>
Boiling Point	≥ 284 °F
Flash Point	114 °F [<i>Test Method:</i> Tagliabue Closed Cup]
Evaporation rate	0.21 [<i>Ref Std:</i> BUOAC=1]
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	≤ 3.7 mmHg [@ 68 °F]
Vapor Density	<i>No Data Available</i>
Density	0.97 g/ml [@ 20 °C]
Specific Gravity	0.97 [<i>Ref Std:</i> WATER=1]
Solubility in Water	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	25,000 centipoise
Hazardous Air Pollutants	0.11 lb HAPS/lb solids [<i>Test Method:</i> Calculated]
Volatile Organic Compounds	181 g/l [<i>Test Method:</i> calculated SCAQMD rule 443.1]
Volatile Organic Compounds	18.6 % weight [<i>Test Method:</i> calculated per CARB title 2]
Percent volatile	18.6 %
VOC Less H2O & Exempt Solvents	181 g/l [<i>Test Method:</i> calculated SCAQMD rule 443.1]

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

Sparks and/or flames

10.5. Incompatible materials

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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin Contact:

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

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Reproductive/Developmental Toxicity:

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

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	C.A.S. No.	Class Description	Regulation
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Toluene 2,6-Diisocyanate	91-08-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Toluene 2,4-Diisocyanate	584-84-9	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	Ingestion		No data available; calculated ATE > 5,000 mg/kg
Talc	Ingestion		LD50 Not available
Polystyrene	Dermal	Rabbit	LD50 > 2,000 mg/kg
Polystyrene	Ingestion	Rat	LD50 > 5,000 mg/kg
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]			Data not available or insufficient for classification
1-Methoxy-2-propyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-Methoxy-2-propyl acetate	Inhalation-Vapor (4 hours)	Rat	LC50 > 28.8 mg/l
1-Methoxy-2-propyl acetate	Ingestion	Rat	LD50 8,532 mg/kg
Polypropylene Glycol-Toluene Diisocyanate Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Polypropylene Glycol-Toluene Diisocyanate Polymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Dermal	Rabbit	LD50 > 5,000 mg/kg

Dimethyl siloxane, reaction product with silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Dimethyl siloxane, reaction product with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Synthetic amorphous silica, fumed, crystalline free	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Rat	LD50 > 5,110 mg/kg
Carbon black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon black	Ingestion	Rat	LD50 > 8,000 mg/kg
Dibutyltin Dilaurate	Dermal	Rat	LD50 > 2,000 mg/kg
Dibutyltin Dilaurate	Ingestion	Rat	LD50 1,290 mg/kg
Toluene 2,6-Diisocyanate	Inhalation-Vapor (4 hours)	Mouse	LC50 0.12 mg/l
Toluene2,4-Diisocyanate	Inhalation-Vapor (4 hours)	Mouse	LC50 0.12 mg/l
Toluene 2,6-Diisocyanate	Dermal	Rabbit	LD50 > 9,400 mg/kg
Toluene2,4-Diisocyanate	Dermal	Rabbit	LD50 > 9,400 mg/kg
Toluene 2,6-Diisocyanate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.35 mg/l
Toluene 2,6-Diisocyanate	Ingestion	Rat	LD50 > 5,000 mg/kg
Toluene2,4-Diisocyanate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.35 mg/l
Toluene2,4-Diisocyanate	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Polystyrene		No significant irritation
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]		Data not available or insufficient for classification
1-Methoxy-2-propyl acetate	Rabbit	No significant irritation
Polypropylene Glycol-Toluene Diisocyanate Polymer		Minimal irritation
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
Dibutyltin Dilaurate	Rabbit	Corrosive
Toluene 2,6-Diisocyanate	Rabbit	Irritant
Toluene2,4-Diisocyanate	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Polystyrene		Data not available or insufficient for classification
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]		Data not available or insufficient for classification
1-Methoxy-2-propyl acetate	Rabbit	Mild irritant
Polypropylene Glycol-Toluene Diisocyanate Polymer		Mild irritant
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Synthetic amorphous silica, fumed, crystalline free	Rabbit	No significant irritation
Carbon black	Rabbit	No significant irritation
Dibutyltin Dilaurate	Rabbit	Corrosive
Toluene 2,6-Diisocyanate	Rabbit	Corrosive
Toluene2,4-Diisocyanate	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Talc		Data not available or insufficient for classification
Polystyrene		Data not available or insufficient for classification
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]		Data not available or insufficient for classification
1-Methoxy-2-propyl acetate	Guinea pig	Not sensitizing
Polypropylene Glycol-Toluene Diisocyanate Polymer		Some positive data exist, but the data are not sufficient for classification
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Human and animal	Not sensitizing
Synthetic amorphous silica, fumed, crystalline free	Human and animal	Not sensitizing
Carbon black		Data not available or insufficient for classification
Dibutyltin Dilaurate	Guinea pig	Sensitizing
Toluene 2,6-Diisocyanate	Human and animal	Sensitizing
Toluene2,4-Diisocyanate	Human and animal	Sensitizing

Respiratory Sensitization

Name	Species	Value
Talc	Human	Not sensitizing
Polystyrene		Data not available or insufficient for classification
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]		Data not available or insufficient for classification
1-Methoxy-2-propyl acetate		Data not available or insufficient for classification
Polypropylene Glycol-Toluene Diisocyanate Polymer		Data not available or insufficient for classification
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica		Data not available or insufficient for classification
Synthetic amorphous silica, fumed, crystalline free		Data not available or insufficient for classification
Carbon black		Data not available or insufficient for classification
Dibutyltin Dilaurate		Data not available or insufficient for classification
Toluene 2,6-Diisocyanate	Human	Sensitizing
Toluene2,4-Diisocyanate	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Polystyrene	In Vitro	Not mutagenic
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]		Data not available or insufficient for classification
1-Methoxy-2-propyl acetate	In Vitro	Not mutagenic
Polypropylene Glycol-Toluene Diisocyanate Polymer		Data not available or insufficient for classification
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	In Vitro	Not mutagenic
Synthetic amorphous silica, fumed, crystalline free	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
Dibutyltin Dilaurate	In vivo	Some positive data exist, but the data are not sufficient for classification
Toluene 2,6-Diisocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Toluene2,4-Diisocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Polystyrene	Not Specified	Rat	Some positive data exist, but the data are not sufficient for classification
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]			Data not available or insufficient for classification
1-Methoxy-2-propyl acetate			Data not available or insufficient for classification
Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Synthetic amorphous silica, fumed, crystalline free	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
Dibutyltin Dilaurate			Data not available or insufficient for classification
Toluene 2,6-Diisocyanate	Inhalation	Human and animal	Not carcinogenic
Toluene 2,6-Diisocyanate	Ingestion	Multiple animal species	Carcinogenic
Toluene 2,4-Diisocyanate	Inhalation	Human and animal	Not carcinogenic
Toluene 2,4-Diisocyanate	Ingestion	Multiple animal species	Carcinogenic

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Overall product	Not Specified	Toxic to reproduction and/or development		pj	
Talc	Ingestion	Not toxic to development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]		Data not available or insufficient for classification			
1-Methoxy-2-propyl acetate	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
1-Methoxy-2-propyl acetate	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
1-Methoxy-2-propyl acetate	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
1-Methoxy-2-propyl acetate	Inhalation	Not toxic to development	Rat	NOAEL 21.6 mg/l	during organogenesis
Polypropylene Glycol-Toluene Diisocyanate Polymer		Data not available or insufficient for classification			
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Toluene Diisocyanate Polymer		Data not available or insufficient for classification			

Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Synthetic amorphous silica, fumed, crystalline free	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Carbon black		Data not available or insufficient for classification			
Dibutyltin Dilaurate	Ingestion	Toxic to female reproduction	Rat	NOAEL 2 mg/kg/day	prematuring into lactation
Dibutyltin Dilaurate	Ingestion	Toxic to development	Rat	NOAEL 2.5 mg/kg/day	during gestation
Toluene 2,6-Diisocyanate	Inhalation	Not toxic to female reproduction	Rat	NOAEL .002 mg/l	2 generation
Toluene 2,6-Diisocyanate	Inhalation	Not toxic to male reproduction	Rat	NOAEL .002 mg/l	2 generation
Toluene 2,6-Diisocyanate	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL .004 mg/l	during organogenesis
Toluene 2,4-Diisocyanate	Inhalation	Not toxic to female reproduction	Rat	NOAEL .002 mg/l	2 generation
Toluene 2,4-Diisocyanate	Inhalation	Not toxic to male reproduction	Rat	NOAEL .002 mg/l	2 generation
Toluene 2,4-Diisocyanate	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL .004 mg/l	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Talc			Data not available or insufficient for classification			
Polystyrene			Data not available or insufficient for classification			
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]			Data not available or insufficient for classification			
1-Methoxy-2-propyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification			
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica			Data not available or insufficient for classification			
Synthetic amorphous silica, fumed, crystalline free			Data not available or insufficient for classification			

Dibutyltin Dilaurate			Data not available or insufficient for classification			
Toluene 2,6-Diisocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
Toluene 2,4-Diisocyanate	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
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 18 mg/m3	113 weeks
Polystyrene			Data not available or insufficient for classification			
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediy)]]			Data not available or insufficient for classification			
1-Methoxy-2-propyl acetate	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 16.2 mg/l	9 days
1-Methoxy-2-propyl acetate	Inhalation	olfactory system	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-Methoxy-2-propyl acetate	Inhalation	blood	All data are negative	Multiple animal species	NOAEL 16.2 mg/l	9 days
1-Methoxy-2-propyl acetate	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	44 days
Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification			
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Toluene Diisocyanate Polymer			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Synthetic amorphous silica, fumed, crystalline free	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Carbon black	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Dibutyltin Dilaurate	Ingestion	liver	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 2 mg/kg/day	2 weeks
Dibutyltin Dilaurate	Ingestion	immune system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 0.3 mg/kg/day	28 days
Toluene 2,6-Diisocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL .000006 mg/l	occupational exposure
Toluene 2,4-Diisocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL .000006 mg/l	occupational exposure

Aspiration Hazard

Name	Value
Talc	Not an aspiration hazard
Polystyrene	Not an aspiration hazard
Benzene, 1,3-diisocyanatomethyl-, polymer with .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]]	Not an aspiration hazard
1-Methoxy-2-propyl acetate	Not an aspiration hazard
Polypropylene Glycol-Toluene Diisocyanate Polymer	Not an aspiration hazard
Glycerol Poly(Oxypropylene) Ether-Polypropylene Glycol-Tolylene Diisocyanate Polymer	Not an aspiration hazard
Dimethyl siloxane, reaction product with silica	Not an aspiration hazard
Synthetic amorphous silica, fumed, crystalline free	Not an aspiration hazard
Carbon black	Not an aspiration hazard
Dibutyltin Dilaurate	Not an aspiration hazard
Toluene 2,6-Diisocyanate	Not an aspiration hazard
Toluene 2,4-Diisocyanate	Not an 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**Ecotoxicological information**

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

Chemical fate information

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

SECTION 13: Disposal considerations**13.1. Disposal methods**

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

As a disposal alternative, utilize an acceptable permitted waste disposal facility. Incinerate in a permitted waste incineration 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.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

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. US Federal Regulations**

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
Toluene 2,4-Diisocyanate	584-84-9	< 0.1
Toluene 2,4-Diisocyanate (Benzene, 1,3-diisocyanatomethyl-)	584-84-9	< 0.1
Toluene 2,6-Diisocyanate	91-08-7	< 0.1
Toluene 2,6-Diisocyanate (Benzene, 1,3-diisocyanatomethyl-)	91-08-7	< 0.1

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Classification</u>
Carbon black	1333-86-4	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 2 **Instability:** 1 **Special Hazards:** Reacts with Water

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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