

Safety Data Sheet

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 Document Group:
 38-0833-4
 Version Number:
 1.08

 Issue Date:
 11/07/25
 Supersedes Date:
 07/25/24

SECTION 1: Identification

1.1. Product identifier

3MTM All Purpose Sealant Primer P591

Product Identification Numbers

70-0075-1219-0, 70-0075-1245-5 7100175431, 7100166911

1.2. Recommended use and restrictions on use

Recommended use

Primer, Industrial use

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes Division **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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification

Flammable Liquid: Category 2. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 2A.

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1. Carcinogenicity: Category 2. Reproductive Toxicity: Category 2.

Specific Target Organ Toxicity (repeated exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

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

May cause an allergic skin reaction.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause respiratory irritation.

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

Precautionary statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating and lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Do not breathe vapors.

Wash exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

Wear protective gloves, eye protection, and face protection.

In case of inadequate ventilation wear respiratory protection.

Response:

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

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

Take off contaminated clothing and wash it before reuse.

In case of fire: Use a fire fighting agent suitable for flammable liquids 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 and container in accordance with applicable local, regional, national, and international regulations.

Supplemental Information:

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

3% of the mixture consists of ingredients of unknown acute oral toxicity.

3% of the mixture consists of ingredients of unknown acute dermal toxicity.

11% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Methyl Ethyl Ketone	78-93-3	30 - 60 Trade Secret *
N-Butyl Acetate	123-86-4	7 - 13 Trade Secret *
Aromatic-alphatic polyisocyanate	26426-91-5	5 - 10 Trade Secret *
Polymethylene Polyphenylene Isocyanate	9016-87-9	3 - 10 Trade Secret *
Carbon Black	1333-86-4	3 - 7 Trade Secret *
1-methoxy-2-propyl acetate	108-65-6	1 - 5
2,4'-Methylenebis(phenyl isocyanate)	5873-54-1	1 - 5 Trade Secret *
3-(trimethoxysilyl)propyl glycidyl ether	2530-83-8	1 - 5 Trade Secret *
Hexamethylene diisocyanate polymer	28182-81-2	1 - 5 Trade Secret *
p,p'-Methylenebis(phenyl isocyanate)	101-68-8	1 - 5 Trade Secret *
Alkyl Isocyanate Silane (NJTS Reg. No. 04499600-7420)	Trade Secret*	1 - 5
p-Toluenesulfonamide	70-55-3	< 1.3
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	68299-15-0	0.1 - 1 Trade Secret *
Hexamethylene diisocyanate	822-06-0	< 0.1
p-Toluenesulfonyl chloride	98-59-9	< 0.1
Toluene 2,4-diisocyanate	584-84-9	< 0.1

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

in signs, symptoms develop, get

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^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). 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 flammable liquids 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

Substance	<u>Condition</u>
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	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. 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. 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. 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. Cover spill area with a fire-extinguishing foam. 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 metal container approved for transportation by appropriate authorities. Cover, but do not seal for 48 hours. Clean up residue with detergent and water. 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/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Avoid release to the environment. 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. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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 strong bases. Store away from oxidizing agents. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
p,p'-Methylenebis(phenyl	101-68-8	OSHA	CEIL:0.2 mg/m3(0.02 ppm)	
isocyanate)				
1-methoxy-2-propyl acetate	108-65-6	AIHA	TWA:50 ppm	
Butyl acetates, all isomers	123-86-4	ACGIH	TWA:50 ppm;STEL:150 ppm	
N-Butyl Acetate	123-86-4	OSHA	TWA:710 mg/m3(150 ppm)	
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3	A3: Confirmed animal
			mg/m3	carcin.
Carbon Black	1333-86-4	OSHA	TWA:3.5 mg/m3	
Toluene 2,4-diisocyanate	584-84-9	OSHA	CEIL:0.14 mg/m3(0.02 ppm)	
TIN, ORGANIC COMPOUNDS,	68299-15-0	OSHA	TWA(as Sn):0.1 mg/m3	
AS /SN/				
Tin, organic compounds, as Sn	68299-15-0	ACGIH	TWA(as Sn):0.1	A4: Not class. as human
			mg/m3;STEL(as Sn):0.2	carcin, Danger of

			mg/m3	cutaneous absorption
Methyl Ethyl Ketone	78-93-3	ACGIH	TWA:75 ppm;STEL:150 ppm	Danger of cutaneous
				absorption
Methyl Ethyl Ketone	78-93-3	OSHA	TWA:590 mg/m3(200 ppm)	
Hexamethylene diisocyanate	822-06-0	ACGIH	TWA:0.005 ppm	
p-Toluenesulfonyl chloride	98-59-9	AIHA	CEIL:5 mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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

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 and particulates Half facepiece or full facepiece supplied-air respirator

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Color	Black	
Odor	Strong Ketones	
Odor threshold	No Data Available	
pH	Not Applicable	
Melting point/Freezing point	Not Applicable	
Boiling point/Initial boiling point/Boiling range	79 ℃	
Flash Point	-8 °C [Test Method:Closed Cup]	
Evaporation rate	No Data Available	
Flammability	Flammable Liquid: Category 2.	
Flammable Limits(LEL)	1.8 % volume	
Flammable Limits(UEL)	11.5 % volume	
Vapor Pressure	No Data Available	
Relative Vapor Density	2.8 [<i>Ref Std</i> :AIR=1]	
Density	0.9 g/ml	
Relative Density	0.9 [Ref Std:WATER=1]	
Water solubility	Moderate	
Solubility- non-water	No Data Available	
Partition coefficient: n-octanol/ water	No Data Available	
Autoignition temperature	> 200 °C	
Decomposition temperature	No Data Available	
Kinematic Viscosity	11.1 mm2/sec	
Volatile Organic Compounds	No Data Available	
Percent volatile	No Data Available	
VOC Less H2O & Exempt Solvents	<=592 g/l [Test Method:calculated SCAQMD rule 443.1]	

Particle Characteristics	Not Applicable
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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

Heat

10.5. Incompatible materials

Alcohols

Amines

Strong acids

Strong bases

Strong oxidizing agents

Water

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.

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

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.

Eve 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:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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 colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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.

<u>Ingredient</u>	CAS No.	Class Description	Regulation
Carbon black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Toluene diisocyanates	584-84-9	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

Additional Information:

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

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
Methyl Ethyl Ketone	Dermal	Rabbit	LD50 > 8,050 mg/kg
Methyl Ethyl Ketone	Inhalation- Vapor (4 hours)	Rat	LC50 34.5 mg/l
Methyl Ethyl Ketone	Ingestion	Rat	LD50 2,737 mg/kg
N-Butyl Acetate	Dermal	Rabbit	LD50 > 14,112 mg/kg
N-Butyl Acetate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 1.8 mg/l
N-Butyl Acetate	Inhalation- Vapor (4 hours)	Rat	LC50 > 21 mg/l
N-Butyl Acetate	Ingestion	Rat	LD50 > 10,760 mg/kg
Polymethylene Polyphenylene Isocyanate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Polymethylene Polyphenylene Isocyanate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.368 mg/l
Polymethylene Polyphenylene Isocyanate	Ingestion	Rat	LD50 31,600 mg/kg
Aromatic-alphatic polyisocyanate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Aromatic-alphatic polyisocyanate	Inhalation- Dust/Mist (4 hours)	similar compoun ds	LC50 > 3.003 mg/l
Aromatic-alphatic polyisocyanate	Ingestion	similar compoun ds	LD50 > 5,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg
2,4'-Methylenebis(phenyl isocyanate)	Dermal	Rabbit	LD50 > 5,000 mg/kg
p,p'-Methylenebis(phenyl isocyanate)	Dermal	Rabbit	LD50 > 5,000 mg/kg
2,4'-Methylenebis(phenyl isocyanate)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.368 mg/l
2,4'-Methylenebis(phenyl isocyanate)	Ingestion	Rat	LD50 31,600 mg/kg
p,p'-Methylenebis(phenyl isocyanate)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.368 mg/l
p,p'-Methylenebis(phenyl isocyanate)	Ingestion	Rat	LD50 31,600 mg/kg
3-(trimethoxysilyl)propyl glycidyl ether	Dermal	Rabbit	LD50 4,000 mg/kg
3-(trimethoxysilyl)propyl glycidyl ether	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	Rat	LD50 7,010 mg/kg
Hexamethylene diisocyanate polymer	Inhalation-	Professio	LC50 estimated to be 1 - 5 mg/l

	Dust/Mist	nal	
	(4 hours)	judgeme	
		nt	
Hexamethylene diisocyanate polymer	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hexamethylene diisocyanate polymer	Ingestion	Rat	LD50 > 5,000 mg/kg
p-Toluenesulfonamide	Dermal	Rat	LD50 > 2,000 mg/kg
p-Toluenesulfonamide	Ingestion	Rat	LD50 > 2,000 mg/kg
1-methoxy-2-propyl acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
1-methoxy-2-propyl acetate	Inhalation-	Rat	LC50 > 28.8 mg/l
	Vapor (4		
	hours)		
1-methoxy-2-propyl acetate	Ingestion	Rat	LD50 8,532 mg/kg
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	Ingestion	Rat	LD50 > 2,000 mg/kg
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	Dermal	similar	LD50 > 2,000 mg/kg
		compoun	
		ds	
Hexamethylene diisocyanate	Dermal	Rat	LD50 > 7,000 mg/kg
Hexamethylene diisocyanate	Inhalation-	Rat	LC50 0.124 mg/l
	Dust/Mist		
	(4 hours)		
Hexamethylene diisocyanate	Inhalation-	Rat	LC50 0.124 mg/l
	Vapor (4		
	hours)		
Hexamethylene diisocyanate	Ingestion	Rat	LD50 746 mg/kg
Toluene 2,4-diisocyanate	Inhalation-	Mouse	LC50 0.12 mg/l
	Vapor (4		
	hours)		
Toluene 2,4-diisocyanate	Dermal	Rabbit	LD50 > 9,400 mg/kg
Toluene 2,4-diisocyanate	Inhalation-	Rat	LC50 0.35 mg/l
	Dust/Mist		
	(4 hours)		
Toluene 2,4-diisocyanate	Ingestion	Rat	LD50 > 5,000 mg/kg
p-Toluenesulfonyl chloride	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
p-Toluenesulfonyl chloride	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Methyl Ethyl Ketone	Rabbit	Minimal irritation
N-Butyl Acetate	Rabbit	No significant irritation
Polymethylene Polyphenylene Isocyanate	official	Irritant
1 orymethyrene i oryphenyrene isocyanate	classifica	mitant
	tion	
Aromatic-alphatic polyisocyanate	similar	No significant irritation
Attornatio dipliatic polyisocyanace	compoun	140 Significant irritation
	ds	
Carbon Black	Rabbit	No significant irritation
2,4'-Methylenebis(phenyl isocyanate)	official	Irritant
, , ,	classifica	
	tion	
p,p'-Methylenebis(phenyl isocyanate)	official	Irritant
	classifica	
	tion	
3-(trimethoxysilyl)propyl glycidyl ether	Rabbit	Mild irritant
Hexamethylene diisocyanate polymer	Rabbit	Minimal irritation
p-Toluenesulfonamide	Rabbit	No significant irritation
1-methoxy-2-propyl acetate	Rabbit	No significant irritation
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	similar	No significant irritation
	compoun	
	ds	
Hexamethylene diisocyanate	Rabbit	Corrosive
Toluene 2,4-diisocyanate	Rabbit	Irritant
p-Toluenesulfonyl chloride	Rabbit	Irritant

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Serious Eye Damage/Irritation

Name	Species	Value
Methyl Ethyl Ketone	Rabbit	Severe irritant
N-Butyl Acetate	Human	Mild irritant
Polymethylene Polyphenylene Isocyanate	official	Severe irritant
3 3 31 3	classifica	
	tion	
Aromatic-alphatic polyisocyanate	similar	Severe irritant
	compoun	
	ds	
Carbon Black	Rabbit	No significant irritation
2,4'-Methylenebis(phenyl isocyanate)	official	Severe irritant
	classifica	
	tion	
p,p'-Methylenebis(phenyl isocyanate)	official	Severe irritant
	classifica	
	tion	
3-(trimethoxysilyl)propyl glycidyl ether	Rabbit	Corrosive
Hexamethylene diisocyanate polymer	Rabbit	Mild irritant
p-Toluenesulfonamide	Rabbit	No significant irritation
1-methoxy-2-propyl acetate	Rabbit	Mild irritant
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	In vitro	No significant irritation
	data	
Hexamethylene diisocyanate	Rabbit	Corrosive
Toluene 2,4-diisocyanate	Rabbit	Corrosive
p-Toluenesulfonyl chloride	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
N-Butyl Acetate	Multiple	Not classified
	animal	
	species	
Polymethylene Polyphenylene Isocyanate	Mouse	Sensitizing
Aromatic-alphatic polyisocyanate	similar	Sensitizing
	compoun	
	ds	
2,4'-Methylenebis(phenyl isocyanate)	Mouse	Sensitizing
p,p'-Methylenebis(phenyl isocyanate)	Mouse	Sensitizing
3-(trimethoxysilyl)propyl glycidyl ether	Guinea	Not classified
	pig	
Hexamethylene diisocyanate polymer	Guinea	Sensitizing
	pig	
1-methoxy-2-propyl acetate	Guinea	Not classified
	pig	
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	similar	Not classified
	compoun	
	ds	
Hexamethylene diisocyanate	Multiple	Sensitizing
	animal	
	species	
Toluene 2,4-diisocyanate	Human	Sensitizing
	and	
	animal	
p-Toluenesulfonyl chloride	Mouse	Sensitizing

Respiratory Sensitization

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	Human	Sensitizing
2,4'-Methylenebis(phenyl isocyanate)	Human	Sensitizing
p,p'-Methylenebis(phenyl isocyanate)	Human	Sensitizing
Hexamethylene diisocyanate polymer	similar	Not classified
	compoun	

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	ds	
Hexamethylene diisocyanate	Human	Sensitizing
	and	
	animal	
Toluene 2,4-diisocyanate	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
Methyl Ethyl Ketone	In Vitro	Not mutagenic
N-Butyl Acetate	In Vitro	Not mutagenic
Polymethylene Polyphenylene Isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Aromatic-alphatic polyisocyanate	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
2,4'-Methylenebis(phenyl isocyanate)	In Vitro	Some positive data exist, but the data are not sufficient for classification
p,p'-Methylenebis(phenyl isocyanate)	In Vitro	Some positive data exist, but the data are not sufficient for classification
3-(trimethoxysilyl)propyl glycidyl ether	In Vitro	Some positive data exist, but the data are not sufficient for classification
3-(trimethoxysilyl)propyl glycidyl ether	In vivo	Some positive data exist, but the data are not sufficient for classification
Hexamethylene diisocyanate polymer	In Vitro	Not mutagenic
Hexamethylene diisocyanate polymer	In vivo	Not mutagenic
1-methoxy-2-propyl acetate	In Vitro	Not mutagenic
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	In Vitro	Not mutagenic
Hexamethylene diisocyanate	In Vitro	Not mutagenic
Hexamethylene diisocyanate	In vivo	Not mutagenic
Toluene 2,4-diisocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification
p-Toluenesulfonyl chloride	In vivo	Not mutagenic
p-Toluenesulfonyl chloride	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Methyl Ethyl Ketone	Inhalation	Human	Not carcinogenic
Polymethylene Polyphenylene Isocyanate	Inhalation	Rat	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
2,4'-Methylenebis(phenyl isocyanate)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
p,p'-Methylenebis(phenyl isocyanate)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
3-(trimethoxysilyl)propyl glycidyl ether	Dermal	Mouse	Not carcinogenic
Hexamethylene diisocyanate	Inhalation	Rat	Not 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
Methyl Ethyl Ketone	Inhalation	Not classified for development	Rat	LOAEL 8.8	during

				mg/l	gestation
N-Butyl Acetate	Inhalation	Not classified for female reproduction	Rat	NOAEL 9.5 mg/l	2 generation
N-Butyl Acetate	Inhalation	Not classified for male reproduction	Rat	NOAEL 9.5 mg/l	2 generation
N-Butyl Acetate	Inhalation	Not classified for development	Rat	NOAEL 3.6 mg/l	2 generation
Polymethylene Polyphenylene Isocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
2,4'-Methylenebis(phenyl isocyanate)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
p,p'-Methylenebis(phenyl isocyanate)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	Not classified for development	Rat	NOAEL 3,000 mg/kg/day	during organogenesi s
p-Toluenesulfonamide	Ingestion	Not classified for reproduction and/or development	Rat	NOAEL 300 mg/kg/day	premating & during gestation
1-methoxy-2-propyl acetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-methoxy-2-propyl acetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-methoxy-2-propyl acetate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
1-methoxy-2-propyl acetate	Inhalation	Not classified for development	Rat	NOAEL 21.6 mg/l	during organogenesi s
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	Ingestion	Toxic to development	similar compoun ds	NOAEL not available	
Hexamethylene diisocyanate	Inhalation	Not classified for female reproduction	Rat	NOAEL 0.002 mg/l	7 weeks
Hexamethylene diisocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.002 mg/l	7 weeks
Hexamethylene diisocyanate	Inhalation	Not classified for male reproduction	Rat	NOAEL 0.014 mg/l	4 weeks
Toluene 2,4-diisocyanate	Inhalation	Not classified for female reproduction	Rat	NOAEL 0.002 mg/l	2 generation
Toluene 2,4-diisocyanate	Inhalation	Not classified for male reproduction	Rat	NOAEL 0.002 mg/l	2 generation
Toluene 2,4-diisocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
p-Toluenesulfonyl chloride	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating into lactation
p-Toluenesulfonyl chloride	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	34 days
p-Toluenesulfonyl chloride	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	premating into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

	Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
Į							Duration

M.d. 1Ed. 1E.	T 1 1 2	1 . 1	1 ·	CC : 1	NOATI NI	
Methyl Ethyl Ketone	Inhalation	central nervous system depression	May cause drowsiness or dizziness	official classifica tion	NOAEL Not available	
Methyl Ethyl Ketone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Methyl Ethyl Ketone	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Methyl Ethyl Ketone	Ingestion	liver	Not classified	Rat	NOAEL Not available	not applicable
Methyl Ethyl Ketone	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 1,080 mg/kg	not applicable
N-Butyl Acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
N-Butyl Acetate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	not available
N-Butyl Acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
2,4'-Methylenebis(phenyl isocyanate)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
p,p'-Methylenebis(phenyl isocyanate)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
Hexamethylene diisocyanate polymer	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not available	
1-methoxy-2-propyl acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
1-methoxy-2-propyl acetate	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	
Hexamethylene diisocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Hexamethylene diisocyanate	Inhalation	blood	Not classified	Human	NOAEL Not available	occupational exposure
Toluene 2,4-diisocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
p-Toluenesulfonyl chloride	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
Methyl Ethyl Ketone	Dermal	nervous system	Not classified	Guinea pig	NOAEL Not available	31 weeks
Methyl Ethyl Ketone	Inhalation	liver	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	heart	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	endocrine system	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 14.7 mg/l	90 days

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Methyl Ethyl Ketone	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	immune system	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Inhalation	muscles	Not classified	Rat	NOAEL 14.7 mg/l	90 days
Methyl Ethyl Ketone	Ingestion	liver	Not classified	Rat	NOAEL Not available	7 days
Methyl Ethyl Ketone	Ingestion	nervous system	Not classified	Rat	NOAEL 173 mg/kg/day	90 days
N-Butyl Acetate	Inhalation	endocrine system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	liver	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	nervous system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 4.8 mg/l	13 weeks
N-Butyl Acetate	Inhalation	respiratory system	Not classified	Rat	NOAEL 4.8 mg/l	13 weeks
N-Butyl Acetate	Inhalation	heart	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	immune system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	eyes	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
N-Butyl Acetate	Inhalation	vascular system	Not classified	Rat	NOAEL 9.6 mg/l	13 weeks
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
2,4'-Methylenebis(phenyl isocyanate)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
p,p'-Methylenebis(phenyl isocyanate)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	mg/kg/day NOAEL 1,000	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	hematopoietic system	Not classified	Rat	mg/kg/day NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl glycidyl ether	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
3-(trimethoxysilyl)propyl	Ingestion	respiratory system	Not classified	Rat	NOAEL	28 days

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glycidyl ether					1.000	I
gryciayi emei					mg/kg/day	
Hexamethylene	Inhalation	immune system	Not classified	Rat	NOAEL	2 weeks
diisocyanate polymer	111141411011	initialité by breini	1100 011100	1.00	0.084 mg/l	2
Hexamethylene	Inhalation	blood	Not classified	Rat	NOAEL	2 weeks
diisocyanate polymer					0.084 mg/l	
1-methoxy-2-propyl	Inhalation	kidney and/or	Not classified	Rat	NOAEL 16.2	9 days
acetate		bladder			mg/l	-
1-methoxy-2-propyl	Inhalation	olfactory system	Not classified	Mouse	LOAEL 1.62	9 days
acetate					mg/l	
1-methoxy-2-propyl	Inhalation	blood	Not classified	Multiple	NOAEL 16.2	9 days
acetate				animal	mg/l	
1 1 2 1	T 4:	1	N. 4 1 'C' 1	species	NOAEL	44.1
1-methoxy-2-propyl	Ingestion	endocrine system	Not classified	Rat	1,000	44 days
acetate					mg/kg/day	
Stannane, dioctylbis[(1-	Ingestion	immune system	Causes damage to organs through	similar	NOAEL not	
oxoneodecyl)oxy]-	nigestion	minute system	prolonged or repeated exposure	compoun	available	
enemeadely tyensy j			protonged of repedited emposare	ds	u · unuoio	
Hexamethylene	Inhalation	liver	Not classified	Rat	NOAEL	3 weeks
diisocyanate					0.002 mg/l	
Hexamethylene	Inhalation	kidney and/or	Not classified	Rat	NOAEL	3 weeks
diisocyanate		bladder			0.002 mg/l	
Hexamethylene	Inhalation	endocrine system	Not classified	Rat	NOAEL	4 weeks
diisocyanate					0.0014 mg/l	
Hexamethylene	Inhalation	blood	Not classified	Rat	NOAEL	2 years
diisocyanate	T 1 1 4	1	N. d. 1. C. 1	D 4	0.0012 mg/l	7 1
Hexamethylene diisocyanate	Inhalation	nervous system	Not classified	Rat	NOAEL 0.002 mg/l	7 weeks
Hexamethylene	Inhalation	heart	Not classified	Rat	NOAEL	90 days
diisocyanate	Illiaiation	licart	Not classified	Kat	0.001 mg/l	90 days
Toluene 2,4-diisocyanate	Inhalation	respiratory system	Causes damage to organs through	Human	NOAEL 0	occupational
Tordene 2,4 diisocyanace	minatation	respiratory system	prolonged or repeated exposure	Trumun	mg/l	exposure
p-Toluenesulfonyl chloride	Ingestion	gastrointestinal tract	Some positive data exist, but the	Rat	NOAEL 750	34 days
r	8.2.	<i>S</i>	data are not sufficient for		mg/kg/day	
			classification			
p-Toluenesulfonyl chloride	Ingestion	heart	Not classified	Rat	NOAEL 750	34 days
					mg/kg/day	
p-Toluenesulfonyl chloride	Ingestion	endocrine system	Not classified	Rat	NOAEL 750	34 days
T. 1. 16 1 11 11	* .:	1	N. 1 'C' 1	D.	mg/kg/day	24.1
p-Toluenesulfonyl chloride	Ingestion	hematopoietic	Not classified	Rat	NOAEL 750 mg/kg/day	34 days
p-Toluenesulfonyl chloride	Ingestion	system nervous system	Not classified	Rat	NOAEL 750	34 days
p-10idenesumonyi emoride	ingestion	nervous system	Not classified	Kat	mg/kg/day	34 days
p-Toluenesulfonyl chloride	Ingestion	kidney and/or	Not classified	Rat	NOAEL 750	34 days
r - one mondo		bladder			mg/kg/day	2, 5
p-Toluenesulfonyl chloride	Ingestion	liver	Not classified	Rat	NOAEL 750	34 days
					mg/kg/day	J -
p-Toluenesulfonyl chloride	Ingestion	immune system	Not classified	Rat	NOAEL 750	34 days
-		-			mg/kg/day	
p-Toluenesulfonyl chloride	Ingestion	respiratory system	Not classified	Rat	NOAEL 750	34 days
					mg/kg/day	

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

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.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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), D035 (Methyl ethyl ketone)

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.

EPCRA 311/312 Hazard Classifications:

Phy	sical	Hazard	S	

Flammable (gases, aerosols, liquids, or solids)

Health Hazards

Carcinogenicity

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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>		
Polymethylene Polyphenylene Isocyanate	9016-87-9	Trade Secret	3 -	10
p,p'-Methylenebis(phenyl isocyanate)	101-68-8	Trade Secret	1 -	5
Hexamethylene diisocyanate	822-06-0	< 0.1		

This material contains a chemical which requires export notification under TSCA Section 12[b]:

<u>Ingredient (Category if applicable)</u>	<u>C.A.S. No</u>	Regulation	<u>Status</u>
Toluene 2,4-diisocyanate	584-84-9	Toxic Substances Control Act (TSCA) 5	Proposed
		SNUR or Consent Order Chemicals	

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This material contains a chemical subject to a proposed EPA Significant New Use Rule (TSCA Section 5)

Ingredient (Category if applicable)C.A.S. NoReferenceToluene 2,4-diisocyanate584-84-980 FR 2068

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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.

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: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

 Document Group:
 38-0833-4
 Version Number:
 1.08

 Issue Date:
 11/07/25
 Supersedes Date:
 07/25/24

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