

# **Safety Data Sheet**

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 11-6418-5
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 11/22/23
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 09/22/23

**Product identifier** 

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3532 B/A

**ID** Number(s):

62-3532-6440-1, 70-0052-1003-7, 87-2500-0328-9, 87-2500-0329-7, 87-2500-0360-2, 87-2500-0409-7, 87-3300-0158-4, 87-3300-0186-5, 87-3300-0663-3, 87-3300-0685-6

7000000864, 7100023241, 7010399418, 7000058943, 7010401574, 7100203534, 7100229666, 7100289125

#### Recommended use

2-Part Urethane Adhesive, Industrial use

Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Automotive and Aerospace Solutions Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA

**Telephone:** 1-888-3M HELPS (1-888-364-3577)

**Emergency telephone number** 

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

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

11-6417-7, 11-6419-3

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**Document Group:** 11-6417-7 **Version Number:** 16.00 **Issue Date:** 09/22/23 **Supercedes Date:** 03/13/23

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3532 B/A Part B

#### **Product Identification Numbers**

LA-T100-2873-6, LC-B100-0909-1, 41-3588-1663-9, 62-3532-8540-6 7000046482

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Base for 2-Part Urethane Adhesive

### 1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Automotive and Aerospace Solutions 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**

## 2.1. Hazard classification

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/vapors/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.

Wash contaminated clothing 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.

51% of the mixture consists of ingredients of unknown acute dermal toxicity.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
Polyester Resin - NJTS Reg No. 3176530002-5392P	Trade Secret*	30 - 60
Polypropylene Glyol	25322-69-4	10 - 30
Talc	14807-96-6	10 - 30 Trade Secret *
Polyoxypropylene Triol	25723-16-4	3 - 7
Silica	7631-86-9	< 5
Zeolites	1318-02-1	1 - 5
o-Diethylbisaniline	13680-35-8	< 2.5 Trade Secret *
BETA-(3,4-	3388-04-3	< 1 Trade Secret *
EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY		
SILANE		
HYDROGENATED CASTOR OIL	8001-78-3	< 1
PM Acetate	108-65-6	< 0.99
2-Ethylhexanoic Acid	149-57-5	< 0.5 Trade Secret *
Sodium Oxide	1313-59-3	< 0.5
DIBUTYLTIN BIS(2-ETHYLHEXYL	10584-98-2	< 0.22 Trade Secret *
MERCAPTOACETATE)		

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

\*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.

#### **Eve 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

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

## Condition

During Combustion
During Combustion

# 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, 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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. 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.) Use personal protective equipment (gloves, respirators, etc.) as required.

# 7.2. Conditions for safe storage including any incompatibilities

Store away from oxidizing agents.

# **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	<b>Additional Comments</b>
TIN, ORGANIC COMPOUNDS	10584-98-2	ACGIH	TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3	A4: Not class. as human carcin, SKIN
TIN, ORGANIC COMPOUNDS	10584-98-2	OSHA	TWA(as Sn):0.1 mg/m3	
PM Acetate	108-65-6	AIHA	TWA:50 ppm	
Aluminum, insoluble compounds	1318-02-1	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2 mg/m3	A4: Not class. as human carcin
TALC	14807-96-6	OSHA	TWA - Use asbestos limits:	
Tale	14807-96-6	OSHA	TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft.	
2-Ethylhexanoic Acid	149-57-5	ACGIH	TWA(inhalable fraction and vapor):5 mg/m3	
Polypropylene Glyol	25322-69-4	AIHA	TWA(as aerosol):10 mg/m3	
DUST, INERT OR NUISANCE	7631-86-9	OSHA	TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):5 mg/m3;TWA(respirable fraction):15 millions of	

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particles/cu. ft.(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.

# 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

# 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 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

Appearance

Physical stateLiquidColorOff-White

Specific Physical Form:PasteOdorPolyester

Odor thresholdNo Data AvailablepHNot ApplicableMelting pointNo Data Available

**Boiling Point** >=179 °C

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Flash Point >=354 °F [Test Method:Closed Cup]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

1.31 g/ml

Specific Gravity 1.31 [Ref Std:WATER=1]

Solubility in Water Ni

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

**Viscosity**  $10,000 - 40,000 \text{ centipoise } [@ 73.4 \text{ }^{\circ}\text{F}]$ 

Molecular weight No Data Available

Volatile Organic Compounds11.4 g/lPercent volatile0.9 %VOC Less H2O & Exempt Solvents11.4 g/l

# **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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

# 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

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:

No health effects are expected. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

# **Skin Contact:**

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.

#### **Eve Contact:**

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

#### **Ingestion:**

May be harmful if swallowed.

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.

#### **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 >2,000 - =5,000
•			mg/kg
Polyester Resin - NJTS Reg No. 3176530002-5392P	Ingestion	Rat	LD50 > 15,000 mg/kg
Polypropylene Glyol	Dermal	Rabbit	LD50 > 10,000 mg/kg
Polypropylene Glyol	Ingestion	Rat	LD50 > 1,000 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Polyoxypropylene Triol	Dermal	Rat	LD50 > 2,000 mg/kg
Polyoxypropylene Triol	Ingestion	Rat	LD50 > 2,500 mg/kg
Zeolites	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zeolites	Inhalation-	Rat	LC50 > 4.57 mg/l
	Dust/Mist		
	(4 hours)		
Zeolites	Ingestion	Rat	LD50 > 5,000 mg/kg
Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
o-Diethylbisaniline	Dermal	Rat	LD50 > 2,000 mg/kg
o-Diethylbisaniline	Ingestion	Rat	LD50 1,736 mg/kg
HYDROGENATED CASTOR OIL	Dermal		LD50 estimated to be > 5,000 mg/kg
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY	Dermal	Rabbit	LD50 6,700 mg/kg
SILANE			
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY	Inhalation-	Rat	LC50 > 7 mg/l
SILANE	Vapor (4		
	hours)		

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BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Ingestion	Rat	LD50 13,100 mg/kg
HYDROGENATED CASTOR OIL	Ingestion	Rat	LD50 > 10,000 mg/kg
Sodium Oxide	Ingestion	Professio	LD50 estimated to be 50 - 300 mg/kg
		nal	
		judgeme	
		nt	
PM Acetate	Dermal	Rabbit	LD50 > 5,000 mg/kg
PM Acetate	Inhalation-	Rat	LC50 > 28.8 mg/l
	Vapor (4		
	hours)		
PM Acetate	Ingestion	Rat	LD50 8,532 mg/kg
2-Ethylhexanoic Acid	Dermal	Rat	LD50 > 2,000 mg/kg
2-Ethylhexanoic Acid	Inhalation-	Rat	LC50 > 3.54  mg/l
	Dust/Mist		
	(4 hours)		
2-Ethylhexanoic Acid	Ingestion	Rat	LD50 2,043 mg/kg
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Dermal	Rat	LD50 777 mg/kg
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Inhalation-	Rat	LC50 0.94 mg/l
	Dust/Mist		
	(4 hours)		
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Ingestion	Rat	LD50 396 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
Polypropylene Glyol	Not available	No significant irritation
Talc	Rabbit	No significant irritation
Polyoxypropylene Triol	Rabbit	No significant irritation
Zeolites	Rabbit	No significant irritation
Silica	Rabbit	No significant irritation
o-Diethylbisaniline	Rabbit	No significant irritation
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	Minimal irritation
HYDROGENATED CASTOR OIL	Mouse	No significant irritation
Sodium Oxide	similar	Corrosive
	compoun	
	ds	
PM Acetate	Rabbit	No significant irritation
2-Ethylhexanoic Acid	Rabbit	Mild irritant
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Rat	Irritant

**Serious Eye Damage/Irritation** 

Name	Species	Value
Polypropylene Glyol	Not	Mild irritant
	available	
Talc	Rabbit	No significant irritation
Polyoxypropylene Triol	Rabbit	Mild irritant
Zeolites	Rabbit	Mild irritant
Silica	Rabbit	No significant irritation
o-Diethylbisaniline	In vitro	No significant irritation
	data	
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	No significant irritation
HYDROGENATED CASTOR OIL	Rabbit	Mild irritant
Sodium Oxide	similar	Corrosive
	compoun	
	ds	
PM Acetate	Rabbit	Mild irritant
2-Ethylhexanoic Acid	Rabbit	Mild irritant
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Rabbit	Severe irritant

# **Skin Sensitization**

00	12	•	12	3

Name	Species	Value
Polypropylene Glyol	Human	Not classified
	and	
	animal	
Silica	Human	Not classified
	and	
	animal	
o-Diethylbisaniline	Mouse	Not classified
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	similar	Sensitizing
	compoun	
	ds	
PM Acetate	Guinea	Not classified
	pig	
2-Ethylhexanoic Acid	Guinea	Not classified
	pig	
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Guinea	Sensitizing
	pig	

**Respiratory Sensitization** 

Name	Species	Value
Talc	Human	Not classified

**Germ Cell Mutagenicity** 

Name	Route	Value	
Polypropylene Glyol	In Vitro	Not mutagenic	
Talc	In Vitro	Not mutagenic	
Talc	In vivo	Not mutagenic	
Silica	In Vitro	Not mutagenic	
o-Diethylbisaniline	In Vitro	Not mutagenic	
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	In Vitro	Some positive data exist, but the data are not sufficient for classification	
HYDROGENATED CASTOR OIL	In Vitro	Not mutagenic	
PM Acetate	In Vitro	Not mutagenic	
2-Ethylhexanoic Acid	In Vitro	Not mutagenic	
2-Ethylhexanoic Acid	In vivo	Not mutagenic	
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	In Vitro	Some positive data exist, but the data are not sufficient for classification	
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	In vivo	Mutagenic	

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Reproductive and/or	Developmental Effects				
Name	Route	Value	Species	Test Result	Exposure Duration
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350	during

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				mg/kg/day	organogenesi s
o-Diethylbisaniline	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during gestation
BETA-(3,4- EPOXYCYCLOHEXYL)ETHYLTRIMET HOXY SILANE	Ingestion	Not classified for development	Rabbit	NOAEL 0.27 mg/kg/day	during organogenesi s
PM Acetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
PM Acetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
PM Acetate	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
PM Acetate	Inhalation	Not classified for development	Rat	NOAEL 21.6 mg/l	during organogenesi s
2-Ethylhexanoic Acid	Ingestion	Not classified for female reproduction	Rat	NOAEL 800 mg/kg/day	2 generation
2-Ethylhexanoic Acid	Ingestion	Not classified for male reproduction	Rat	NOAEL 800 mg/kg/day	2 generation
2-Ethylhexanoic Acid	Ingestion	Toxic to development	Rat	NOAEL 100 mg/kg/day	during gestation
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Ingestion	Toxic to female reproduction	similar compoun ds	NOAEL Not available	premating into lactation
DIBUTYLTIN BIS(2-ETHYLHEXYL MERCAPTOACETATE)	Ingestion	Toxic to development	similar compoun ds	NOAEL Not available	during gestation

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Sodium Oxide	Inhalation	respiratory irritation	May cause respiratory irritation	Professio nal judgeme nt	NOAEL Not available	
PM Acetate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
PM Acetate	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	
2-Ethylhexanoic Acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
DIBUTYLTIN BIS(2- ETHYLHEXYL MERCAPTOACETATE)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
DIBUTYLTIN BIS(2- ETHYLHEXYL MERCAPTOACETATE)	Ingestion	immune system	Causes damage to organs	similar compoun ds	NOAEL Not available	

**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	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

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o-Diethylbisaniline	Ingestion	liver   heart   endocrine system   hematopoietic system   immune system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
PM Acetate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 16.2 mg/l	9 days
PM Acetate	Inhalation	olfactory system	Not classified	Mouse	LOAEL 1.62 mg/l	9 days
PM Acetate	Inhalation	blood	Not classified	Multiple animal species	NOAEL 16.2 mg/l	9 days
PM Acetate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	44 days
2-Ethylhexanoic Acid	Ingestion	hematopoietic system   liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   respiratory system   vascular system	Not classified	Rat	NOAEL 917 mg/kg/day	13 weeks
DIBUTYLTIN BIS(2- ETHYLHEXYL MERCAPTOACETATE)	Ingestion	immune system	Causes damage to organs through prolonged or repeated exposure	similar compoun ds	NOAEL Not available	28 days
DIBUTYLTIN BIS(2- ETHYLHEXYL MERCAPTOACETATE)	Ingestion	liver	Causes damage to organs through prolonged or repeated exposure	similar compoun ds	NOAEL Not available	2 weeks

#### **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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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): Not regulated

# **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:**

### Physical Hazards

Not applicable

#### Health Hazards

Reproductive toxicity

Respiratory or Skin Sensitization

# 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: 1 Instability: 0 Special Hazards: None

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

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# Safety Data Sheet

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 11-6419-3
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 15.08

 Issue Date:
 03/13/23
 Supercedes Date:
 08/17/21

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3532 B/A Part A

#### **Product Identification Numbers**

LA-D100-0296-9, LA-T100-2873-5, LC-B100-0595-1, LC-B100-0595-2, LC-B100-0909-4, 41-3588-1664-7, 62-3632-8540-

7000046495

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Accelerator for 2-Part Urethane Adhesive

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Automotive and Aerospace Solutions 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**

### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2. Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

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

#### 2.2. Label elements

### Signal word

Danger

#### **Symbols**

Exclamation mark | Health Hazard |

# **Pictograms**





#### **Hazard Statements**

Causes serious eye irritation.

Causes skin irritation.

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

May cause an allergic skin reaction.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure:

respiratory system

## **Precautionary Statements**

#### **Prevention:**

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves and eye/face protection.

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

Wash thoroughly after handling.

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

#### **Response:**

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

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

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.

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.

Get medical advice/attention if you feel unwell.

#### Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

#### **Disposal:**

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

#### **Supplemental Information:**

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

40% of the mixture consists of ingredients of unknown acute oral toxicity.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt	I

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Urethane Prepolymer - N.J.T.S Reg No. 04499600-5770P	Trade Secret*	30 - 60
Polymethylene Polyphenylene Isocyanate	9016-87-9	10 - 30 Trade Secret *
Talc	14807-96-6	10 - 30 Trade Secret *
Diphenylmethane Diisocyanate (MDI)	26447-40-5	1 - 10 Trade Secret *
Silica	7631-86-9	< 5
		< 1
SODIUM OXIDE	1313-59-3	< 1

<sup>\*</sup>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.

#### **Eve 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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

# **SECTION 5: Fire-fighting measures**

## 5.1. Suitable extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

# **Hazardous Decomposition or By-Products**

<b>Substance</b>	<u>Condition</u>
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

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, 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. 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. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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 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.)

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2	A4: Not class. as human
			mg/m3	carcin
TALC	14807-96-6	OSHA	TWA - Use asbestos limits:	
Talc	14807-96-6	OSHA	TWA	
			concentration(respirable):0.1	
			mg/m3(2.4 millions of	
			particles/cu. ft.);TWA:20	
			millions of particles/cu. ft.	
DUST, INERT OR NUISANCE	7631-86-9	OSHA	TWA(as total dust):15	
			mg/m3;TWA(as total dust):50	
			millions of particles/cu. ft.(15	

			mg/m3);TWA(respirable fraction):5 mg/m3;TWA(respirable fraction):15 millions of	
Polymethylene Polyphenylene	9016-87-9	Manufacturer	particles/cu. ft.(5 mg/m3) TWA(inhalable fraction)(8	Dermal Sensitizer,
Isocyanate		determined	hours):0.05 mg/m3;CEIL(inhalable	Respiratory Sensitizer
			fraction):0.1 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.

## 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:

**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.

Gloves made from the following material(s) are recommended: Butyl Rubber

Neoprene

Nitrile Rubber

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 – Butyl rubber

Apron - Neoprene

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

**Appearance** 

Physical stateLiquidColorBrown

Specific Physical Form:PasteOdorSlight OdorOdor thresholdNo Data Available

pH Not Applicable
Melting point No Data Available

**Boiling Point** >=186 °C

Flash Point >=367 °F [Test Method:Closed Cup]

Evaporation rate

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

1.34 g/ml

Specific Gravity1.34 [Ref Std:WATER=1]Solubility in WaterSlight (less than 10%)Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data Available

Viscosity 15,000 - 32,000 centipoise [@ 73.4 °F]

Molecular weightNo Data AvailableVolatile Organic CompoundsNot ApplicablePercent volatile0.0 % weightVOC Less H2O & Exempt SolventsNot Applicable

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

## 10.2. Chemical stability

Stable.

# 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

## 10.5. Incompatible materials

Amines

Alcohols

Water

Strong acids

Strong bases

Strong oxidizing agents

## 10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

# 11.1. Information on Toxicological effects

## Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### **Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

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.

#### **Additional Health Effects:**

#### Prolonged or repeated exposure may cause target organ effects:

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

#### **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
			_

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03		
	/ I	

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
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 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
Diphenylmethane Diisocyanate (MDI)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Diphenylmethane Diisocyanate (MDI)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.368 mg/l
Diphenylmethane Diisocyanate (MDI)	Ingestion	Rat	LD50 31,600 mg/kg
Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
SODIUM OXIDE	Ingestion	Professio nal judgeme nt	LD50 estimated to be 50 - 300 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Skin Corrosion/II Itation		
Name	Species	Value
	•	
Talc	Rabbit	No significant irritation
Polymethylene Polyphenylene Isocyanate	official	Irritant
	classifica	
	tion	
Diphenylmethane Diisocyanate (MDI)	official	Irritant
	classifica	
	tion	
Silica	Rabbit	No significant irritation
SODIUM OXIDE	similar	Corrosive
	compoun	
	ds	

Serious Eye Damage/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Polymethylene Polyphenylene Isocyanate	official	Severe irritant
	classifica	
	tion	
Diphenylmethane Diisocyanate (MDI)	official	Severe irritant
	classifica	
	tion	
Silica	Rabbit	No significant irritation
SODIUM OXIDE	similar	Corrosive
	compoun	
	ds	

# **Skin Sensitization**

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official	Sensitizing
	classifica	
	tion	
Diphenylmethane Diisocyanate (MDI)	official	Sensitizing
	classifica	

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	tion	
Silica	Human	Not classified
	and	
	animal	

**Respiratory Sensitization** 

Name	Species	Value
Talc	Human	Not classified
Polymethylene Polyphenylene Isocyanate	Human	Sensitizing
Diphenylmethane Diisocyanate (MDI)	Human	Sensitizing

**Germ Cell Mutagenicity** 

	_			
Name	Route	Value		
Talc	In Vitro	Not mutagenic		
Talc	In vivo	Not mutagenic		
Polymethylene Polyphenylene Isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Diphenylmethane Diisocyanate (MDI)	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Silica	In Vitro	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
Tale	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Polymethylene Polyphenylene Isocyanate	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Diphenylmethane Diisocyanate (MDI)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
Polymethylene Polyphenylene Isocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
Diphenylmethane Diisocyanate (MDI)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ	i oxicity - s	angie exposure				
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica	NOAEL Not available	

				tion		·
Diphenylmethane Diisocyanate (MDI)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica	NOAEL Not available	
				tion		
SODIUM OXIDE	Inhalation	respiratory irritation	May cause respiratory irritation	Professio	NOAEL Not	
				nal	available	
				judgeme		
				nt		

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	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Diphenylmethane Diisocyanate (MDI)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

#### **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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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): Not regulated

# **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:**

#### Physical Hazards

Not applicable

#### **Health Hazards**

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>	C.A.S. No	<u>% by Wt</u>		
Polymethylene Polyphenylene Isocyanate	9016-87-9	Trade Secret	10 -	30
Polymethylene Polyphenylene Isocyanate	9016-87-9	Trade Secret	10 -	30
(DIISOCYANATES (CERTAIN CHEMICALS				
ONLY))				

# 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: 1 Instability: 1 Special Hazards: None

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

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