

### Safety Data Sheet

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Document group:	11-3195-2	Version number:	12.04
Issue Date:	2022/11/04	Supercedes Date:	2020/10/27

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M(TM) SCOTCH-WELD(TM) URETHANE ADHESIVE EC-3549 B/A

#### **Product Identification Numbers**

62-3549-6440-5 87-2500-0412-1 87-2500-0436-0 87-2500-0437-8 87-3300-0131-1 87-3300-0686-4 87-3300-0687-2 87-3300-0692-2 87-3300-0693-0 HB-0044-8876-1

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

#### Recommended use

Two-Component Polyurethane Adhesive

## 1.3. Supplier's details

**Company:** 3M Canada Company

**Division:** Automotive and Aerospace Solutions Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577

E Mail:

#### 1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS) or Article Information Sheet (AIS) 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:

10-8304-7, 10-8546-3

Transport in accordance with applicable regulations.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE.

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# 3M(TM) SCOTCH-WELD(TM) URETHANE ADHESIVE EC-3549 B/A

COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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

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# Safety Data Sheet

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 Document group:
 10-8304-7
 Version number:
 14.00

 Issue Date:
 2022/11/04
 Supercedes Date:
 2020/10/20

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

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3549 B/A Part B

**Product Identification Numbers** 

60-3549-6440-5 LA-D100-0169-9 LA-T100-2446-5 LC-B100-0907-4 LC-B100-0962-4

LC-B100-0962-5 62-3549-8540-0

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

#### **Intended Use**

Automotive

#### Specific Use

Base of 2-Part Urethane Adhesive

#### Restrictions on use

Not applicable

# 1.3. Supplier's details

**Company:** 3M Canada Company

**Division:** Automotive and Aerospace Solutions Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577 **Website:** www.3M.ca

#### 1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

# **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1.

#### 2.2. Label elements

Signal word

# Warning

# **Symbols**

Exclamation mark

# **Pictograms**



#### **Hazard statements**

May cause an allergic skin reaction.

# **Precautionary statements**

#### **Prevention:**

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

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

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

### 2.3. Other hazards

None known.

52% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Polyester Resin	Trade Secret	30 - 60	Not Applicable
Polypropylene Glycol	25322-69-4	10 - 30	Poly[oxy(methyl-1,2-ethanediyl)], .alpha hydroomegahydroxy-
Talc	14807-96-6	10 - 30	Talc (Mg3H2(SiO3)4)
Polyoxypropylene Triol	25723-16-4	3 - 7	Poly[oxy(methyl-1,2-ethanediyl)], .alpha hydroomegahydroxy-, ether with 2- ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)
o-Diethylbisaniline	13680-35-8	1 - 5	Benzenamine, 4,4'-methylenebis[2,6-diethyl-
Silica	7631-86-9	< 5	Silica
Zeolites	1318-02-1	< 3	Zeolites
BETA-(3,4- EPOXYCYCLOHEXYL)ETHY LTRIMETHOXY SILANE	3388-04-3	0.1 - 1 Trade Secret *	Silane, trimethoxy[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]-
SODIUM OXIDE	1313-59-3	< 0.5	Sodium oxide (Na2O)

Polyester Resin is a non-hazardous Trade Secret material according to WHMIS criteria.

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

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

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

#### **Skin Contact:**

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

#### **Eve Contact:**

No need for first aid is anticipated.

#### If Swallowed:

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

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

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

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

Not applicable

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

# 5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

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

None inherent in this product.

### **Hazardous Decomposition or By-Products**

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring CombustionIrritant Vapours or GasesDuring Combustion

#### 5.3. Special protective actions for fire-fighters

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

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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

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

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

For industrial or professional use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

#### 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>
Aluminum, insoluble compounds	1318-02-1	ACGIH	TWA(respirable fraction):1	
			mg/m3	
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2	
			mg/m3	
Polypropylene Glycol	25322-69-4	AIHA	TWA(as aerosol):10 mg/m3	
Particles (insoluble or poorly	7631-86-9	ACGIH	TWA(inhalable	
soluble) not otherwise specified,			particulates):10 mg/m3	
inhalable particles				
Particles (insoluble or poorly	7631-86-9	ACGIH	TWA(respirable particles):3	
soluble) not otherwise specified,			mg/m3	
respirable particles				

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

No engineering controls required.

# 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

None required.

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### Respiratory protection

None required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Colour Off-White Odour Slight Odour, Mild Odour Odour threshold No Data Available PH Not Applicable Melting point/Freezing point Not Applicable Boiling point >=178.9 °C Flash Point V=178.9 °C [Test Method:Closed Cup] Evaporation rate Not Applicable Flammability (solid, gas) Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available Vapour Pressure Not Applicable Vapour Pensity and/or Relative Vapour Density Density 1.31 [Ref Std:WATER=1] Water solubility- non-water No Data Available No Data Available No Data Available No Beligible Solubility- non-water No Data Available No Data Available No Data Available	Information on basic physical and chemical properties	<u> </u>	
Colour Odour Slight Odour, Mild Odour Odour threshold No Data Available pH Not Applicable Melting point/Freezing point Not Applicable Boiling point >=178.9 °C Flash Point >=178.9 °C [Test Method:Closed Cup] Evaporation rate Not Applicable Flammability (solid, gas) Not Applicable Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available Vapour Pressure No Data Available Vapour Density and/or Relative Vapour Density Density 1.31 [Ref Std:WATER=1] Water solubility- non-water No Data Available No Data Available No Data Available Negligible Solubility- non-water No Data Available No Data Available	Physical state	Liquid	
Odour       Slight Odour, Mild Odour         Odour threshold       No Data Available         pH       Not Applicable         Melting point/Freezing point       Not Applicable         Boiling point       >=178.9 °C         Flash Point       >=178.9 °C [Test Method: Closed Cup]         Evaporation rate       Not Applicable         Flammability (solid, gas)       Not Applicable         Flammable Limits(LEL)       No Data Available         Vapour Pressure       No Data Available         Vapour Density and/or Relative Vapour Density       Not Applicable         Density       1.31 g/ml         Relative density       1.31 [Ref Std:WATER=1]         Water solubility       Negligible         Solubility- non-water       No Data Available         Partition coefficient: n-octanol/water       No Data Available	Specific Physical Form:	Paste	
Odour       Slight Odour, Mild Odour         Odour threshold       No Data Available         pH       Not Applicable         Melting point/Freezing point       Not Applicable         Boiling point       >=178.9 °C         Flash Point       >=178.9 °C [Test Method: Closed Cup]         Evaporation rate       Not Applicable         Flammability (solid, gas)       Not Applicable         Flammable Limits(LEL)       No Data Available         Vapour Pressure       No Data Available         Vapour Density and/or Relative Vapour Density       Not Applicable         Density       1.31 g/ml         Relative density       1.31 [Ref Std:WATER=1]         Water solubility       Negligible         Solubility- non-water       No Data Available         Partition coefficient: n-octanol/water       No Data Available			
Odour threshold     No Data Available       pH     Not Applicable       Melting point/Freezing point     Not Applicable       Boiling point     >=178.9 °C       Flash Point     >=178.9 °C [Test Method: Closed Cup]       Evaporation rate     Not Applicable       Flammability (solid, gas)     Not Applicable       Flammable Limits(LEL)     No Data Available       Vapour Pressure     No Data Available       Vapour Density and/or Relative Vapour Density     Not Applicable       Density     1.31 g/ml       Relative density     1.31 [Ref Std:WATER=1]       Water solubility     Negligible       Solubility- non-water     No Data Available       Partition coefficient: n-octanol/ water     No Data Available	Colour	Off-White	
PH Not Applicable Melting point/Freezing point Not Applicable Boiling point S=178.9 °C Flash Point >=178.9 °C [Test Method: Closed Cup] Evaporation rate Not Applicable Flammability (solid, gas) Not Applicable Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available Vapour Pressure No Data Available Vapour Density and/or Relative Vapour Density Not Applicable Density 1.31 g/ml Relative density 1.31 [Ref Std: WATER=1] Water solubility Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available	Odour	Slight Odour, Mild Odour	
Melting point/Freezing point  Boiling point  >=178.9 °C  Flash Point  >=178.9 °C [Test Method: Closed Cup]  Evaporation rate  Not Applicable  Flammability (solid, gas)  Not Applicable  Flammable Limits(LEL)  No Data Available  Flammable Limits(UEL)  No Data Available  Vapour Pressure  No Data Available  Vapour Density and/or Relative Vapour Density  Density  Relative density  1.31 [Ref Std: WATER=1]  Water solubility  No Data Available  No Data Available  No Data Available  No Data Available	Odour threshold	No Data Available	
Boiling point >=178.9 °C Flash Point >=178.9 °C [Test Method:Closed Cup]  Evaporation rate Not Applicable Flammability (solid, gas) Not Applicable Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available Vapour Pressure No Data Available Vapour Density and/or Relative Vapour Density Not Applicable Density 1.31 g/ml Relative density 1.31 [Ref Std:WATER=1] Water solubility Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water	pH	Not Applicable	
Section 1	Melting point/Freezing point	Not Applicable	
Evaporation rate  Flammability (solid, gas)  Not Applicable  Not Applicable  Not Applicable  Not Applicable  No Data Available  No Data Available  Vapour Pressure  No Data Available  Vapour Density and/or Relative Vapour Density  Not Applicable  Density  1.31 g/ml  Relative density  1.31 [Ref Std:WATER=1]  Water solubility  No Data Available  No Data Available  No Data Available  Partition coefficient: n-octanol/ water  No Data Available	Boiling point	>=178.9 °C	
Flammability (solid, gas)  Flammable Limits(LEL)  No Data Available  Flammable Limits(UEL)  No Data Available  Vapour Pressure  No Data Available  Vapour Density and/or Relative Vapour Density  Density  Relative density  1.31 [Ref Std:WATER=1]  Water solubility  Negligible  Solubility- non-water  No Data Available  Partition coefficient: n-octanol/ water	Flash Point	>=178.9 °C [Test Method:Closed Cup]	
Flammable Limits(LEL)  No Data Available  No Data Available  Vapour Pressure  No Data Available  Vapour Density and/or Relative Vapour Density  Density  1.31 g/ml  Relative density  1.31 [Ref Std: WATER=1]  Water solubility  Negligible  Solubility- non-water  No Data Available  No Data Available	Evaporation rate	Not Applicable	
Flammable Limits(UEL)  Vapour Pressure  No Data Available  Vapour Density and/or Relative Vapour Density  Density  1.31 g/ml  Relative density  1.31 [Ref Std:WATER=1]  Water solubility  No Data Available  Partition coefficient: n-octanol/ water  No Data Available	Flammability (solid, gas)	Not Applicable	
Vapour Pressure       No Data Available         Vapour Density and/or Relative Vapour Density       Not Applicable         Density       1.31 g/ml         Relative density       1.31 [Ref Std:WATER=1]         Water solubility       Negligible         Solubility- non-water       No Data Available         Partition coefficient: n-octanol/ water       No Data Available	Flammable Limits(LEL)	No Data Available	
Vapour Density and/or Relative Vapour Density       Not Applicable         Density       1.31 g/ml         Relative density       1.31 [Ref Std:WATER=1]         Water solubility       Negligible         Solubility- non-water       No Data Available         Partition coefficient: n-octanol/ water       No Data Available	Flammable Limits(UEL)	No Data Available	
Density     1.31 g/ml       Relative density     1.31 [Ref Std:WATER=1]       Water solubility     Negligible       Solubility- non-water     No Data Available       Partition coefficient: n-octanol/ water     No Data Available	Vapour Pressure	No Data Available	
Relative density       1.31 [Ref Std:WATER=1]         Water solubility       Negligible         Solubility- non-water       No Data Available         Partition coefficient: n-octanol/ water       No Data Available	Vapour Density and/or Relative Vapour Density	Not Applicable	
Water solubility Negligible Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available	Density	1.31 g/ml	
Solubility- non-water  No Data Available  Partition coefficient: n-octanol/ water  No Data Available	Relative density	1.31 [Ref Std:WATER=1]	
Partition coefficient: n-octanol/ water No Data Available	Water solubility	Negligible	
	Solubility- non-water	No Data Available	
Autoignition temperature No Data Available	Partition coefficient: n-octanol/ water	No Data Available	
Autoignition temperature pro Data Avaitable	Autoignition temperature	No Data Available	
	Decomposition temperature		
Viscosity/Kinematic Viscosity 10,000 - 40,000 mPa-s [@ 23 °C ]	Viscosity/Kinematic Viscosity	10,000 - 40,000 mPa-s [@ 23 °C ]	
Volatile Organic Compounds <=7 g/l [Test Method:calculated SCAQMD rule 443.1]	Volatile Organic Compounds		
Percent volatile No Data Available	Percent volatile	No Data Available	
VOC Less H2O & Exempt Solvents <=7 g/l [Test Method:calculated SCAQMD rule 443.1]	VOC Less H2O & Exempt Solvents	<=7 g/l [Test Method:calculated SCAQMD rule 443.1]	
Molecular weight No Data Available	Molecular weight	No Data Available	

# **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

**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:**

No health effects are expected.

#### **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.

#### **Eye Contact:**

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

# **Ingestion:**

No known health effects.

# Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Talc containing asbestiform fibres	14807-96-6	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### **Toxicological Data**

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

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polyester Resin	Ingestion	Rat	LD50 > 15,000 mg/kg
Polypropylene Glycol	Dermal	Rabbit	LD50 > 10,000 mg/kg
Polypropylene Glycol	Ingestion	Rat	LD50 > 2,000 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- Dust/Mist (4 hours)	Rat	LC50 > 4.57 mg/l
Zeolites	Ingestion	Rat	LD50 > 5,000 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
o-Diethylbisaniline	Ingestion	Rat	LD50 1,901 mg/kg
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Dermal	Rabbit	LD50 6,700 mg/kg
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Inhalation- Vapor (4 hours)	Rat	LC50 > 7 mg/l
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Ingestion	Rat	LD50 13,100 mg/kg
SODIUM OXIDE	Ingestion	Professio nal judgeme nt	LD50 estimated to be 50 - 300 mg/kg

ATE = acute toxicity estimate

# **Skin Corrosion/Irritation**

Name	Species	Value
Polypropylene Glycol	Rabbit	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	Minimal irritation
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	Minimal irritation
SODIUM OXIDE	similar	Corrosive
	compoun	
	ds	

**Serious Eye Damage/Irritation** 

Name	Species	Value
Polypropylene Glycol	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Polyoxypropylene Triol	Rabbit	Mild irritant
Zeolites	Rabbit	Mild irritant
Silica	Rabbit	No significant irritation
o-Diethylbisaniline	Rabbit	No significant irritation
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	Rabbit	No significant irritation
SODIUM OXIDE	similar	Corrosive
	compoun	
	ds	

# **Skin Sensitization**

Name	Species	Value
Silica	Human	Not classified
	and	
	animal	
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY SILANE	similar	Sensitizing
	compoun	
	ds	

**Respiratory Sensitization** 

Name	Species	Value
Talc	Human	Not classified

**Germ Cell Mutagenicity** 

Name	Route	Value
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

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification
Silica	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
BETA-(3,4-EPOXYCYCLOHEXYL)ETHYLTRIMETHOXY	Dermal	Mouse	Some positive data exist, but the data are not
SILANE			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
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
BETA-(3,4- EPOXYCYCLOHEXYL)ETHYLTRIMET HOXY SILANE	Ingestion	Not classified for development	Rabbit	NOAEL 0.27 mg/kg/day	during organogenesi s

# 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	

Specific Target Organ Toxicity - repeated exposure

Name Route Target Organ(s) V	Value Sp		Test result Ex	xposure
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						Duration
Talc	Inhalation	pneumoconiosis	Causes damage to organs through	Human	NOAEL Not	occupational
			prolonged or repeated exposure		available	exposure
Talc	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL 18	113 weeks
		respiratory system			mg/m3	
Silica	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational
		silicosis			available	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**

No data available.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

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

Dispose of 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.

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

# **SECTION 16: Other information**

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

Health: 2 Flammability: 1 Instability: 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:	10-8304-7	Version number:	14.00
Issue Date:	2022/11/04	Supercedes Date:	2020/10/20

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

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# Safety Data Sheet

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 Document group:
 10-8546-3
 Version number:
 19.03

 Issue Date:
 2022/11/03
 Supercedes Date:
 2020/10/16

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

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3549 B/A Part A

**Product Identification Numbers** 

LA-T100-2446-4 LC-B100-0907-5 LC-B100-0962-2 LC-B100-0962-3 LA-D100-0169-8

62-3649-8540-8

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

# **Intended Use**

Industrial use

#### Specific Use

Accelerator of 2-Part Urethane Adhesive

#### Restrictions on use

Not applicable

# 1.3. Supplier's details

**Company:** 3M Canada Company

**Division:** Automotive and Aerospace Solutions Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

**Telephone:** (800) 364-3577 **Website:** www.3M.ca

#### 1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

# **SECTION 2: Hazard identification**

# 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2A.

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

Skin Sensitizer: Category 1.

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### 3M™ Scotch-Weld™ Urethane Adhesive EC-3549 B/A Part A

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/vapours/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 exposed skin 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 CENTRE 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.

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.

#### 2.3. Other hazards

None known.

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

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Urethane Prepolymer	Trade Secret	15 - 40	Not Applicable
P,P'-Methylenebis(phenyl	101-68-8	10 - 30 Trade Secret *	Benzene, 1,1'-methylenebis[4-isocyanato-

Page: 2 of 11

isocyanate)			
Polymethylene Polyphenylene	9016-87-9	10 - 30 Trade Secret *	Isocyanic acid,
Isocyanate			polymethylenepolyphenylene ester
Talc	14807-96-6	10 - 30 Trade Secret *	Talc (Mg3H2(SiO3)4)
Diphenylmethane Diisocyanate	26447-40-5	3 - 10 Trade Secret *	Benzene, 1,1'-methylenebis[isocyanato-
(MDI)			
Zeolite	1318-02-1	1 - 5	Zeolites

Urethane Prepolymer is a non-hazardous Trade Secret material according to WHMIS criteria.

# **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 carbon dioxide or dry chemical extinguisher to extinguish.

# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

# **Hazardous Decomposition or By-Products**

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

### 5.3. Special protective actions for fire-fighters

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants,

<sup>\*</sup>The actual concentration of this ingredient has been withheld as a trade secret.

bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# **SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. 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 or professional use only. Not for consumer sale or use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

# 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>
P,P'-Methylenebis(phenyl isocyanate)	101-68-8	ACGIH	TWA:0.005 ppm	
Aluminum, insoluble compounds	1318-02-1	ACGIH	TWA(respirable fraction):1 mg/m3	
Tale	14807-96-6	ACGIH	TWA(respirable fraction):2 mg/m3	
Polymethylene Polyphenylene Isocyanate	9016-87-9	Manufacturer determined	TWA(inhalable fraction)(8 hours):0.05 mg/m3;CEIL(inhalable fraction):0.1 mg/m3	Dermal Sensitizer, Respiratory Sensitizer

### 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3549 B/A Part A

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

# 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Indirect Vented Goggles

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

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 vapours and particulates

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

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

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Physical state	Liquid			
Specific Physical Form:	Paste			
Colour	Brown			
Odour	Slight Odour			
Odour threshold	No Data Available			

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рН	Not Applicable
Melting point/Freezing point	Not Applicable
<b>Boiling point</b>	>=186 °C
Flash Point	>=186.1 °C [Test Method:Closed Cup]
Evaporation rate	Not Applicable
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapour Density and/or Relative Vapour Density	No Data Available
Density	1.34 g/ml
Relative density	1.34 [ <i>Ref Std</i> :WATER=1]
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	Not Applicable
Decomposition temperature	No Data Available
Viscosity/Kinematic Viscosity	15,000 - 32,000 mPa-s [@ 23 °C ] [Test Method:Brookfield]
Volatile Organic Compounds	0 g/l [Test Method:calculated SCAQMD rule 443.1]
Percent volatile	0 % weight
VOC Less H2O & Exempt Solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	No Data Available

# **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

Amines

Alcohols

Water

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

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.

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# **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.

#### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### **Ingestion:**

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

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

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

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

#### **Carcinogenicity:**

<u>Ingredient</u>	CAS No.	Class Description	Regulation
Talc-based body powder (perineal use of)	14807-96-6	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Talc containing asbestiform fibres	14807-96-6	Grp. 1: Carcinogenic to humans	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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Urethane Prepolymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Urethane Prepolymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg

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Polymethylene Polyphenylene Isocyanate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Polymethylene Polyphenylene Isocyanate	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
Polymethylene Polyphenylene Isocyanate	Ingestion	Rat	LD50 31,600 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
P,P'-Methylenebis(phenyl isocyanate)	Dermal	Rabbit	LD50 > 5,000 mg/kg
P,P'-Methylenebis(phenyl isocyanate)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
P,P'-Methylenebis(phenyl isocyanate)	Ingestion	Rat	LD50 31,600 mg/kg
Diphenylmethane Diisocyanate (MDI)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Diphenylmethane Diisocyanate (MDI)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
Diphenylmethane Diisocyanate (MDI)	Ingestion	Rat	LD50 31,600 mg/kg
Zeolite	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zeolite	Inhalation-	Rat	LC50 > 4.57 mg/l
	Dust/Mist		
	(4 hours)		
Zeolite	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

# **Skin Corrosion/Irritation**

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official classifica tion	Irritant
Talc	Rabbit	No significant irritation
P,P'-Methylenebis(phenyl isocyanate)	official classifica tion	Irritant
Diphenylmethane Diisocyanate (MDI)	official classifica tion	Irritant
Zeolite	Rabbit	No significant irritation

Serious Eve Damage/Irritation

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official classifica tion	Severe irritant
Talc	Rabbit	No significant irritation
P,P'-Methylenebis(phenyl isocyanate)	official classifica tion	Severe irritant
Diphenylmethane Diisocyanate (MDI)	official classifica tion	Severe irritant
Zeolite	Rabbit	Mild irritant

# **Skin Sensitization**

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official	Sensitizing
	classifica	
	tion	
P,P'-Methylenebis(phenyl isocyanate)	official	Sensitizing
	classifica	
	tion	
Diphenylmethane Diisocyanate (MDI)	official	Sensitizing
	classifica	

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	tion	
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**Respiratory Sensitization** 

Name S		Value
Polymethylene Polyphenylene Isocyanate	Human	Sensitizing
Talc	Human	Not classified
P,P'-Methylenebis(phenyl isocyanate)	Human	Sensitizing
Diphenylmethane Diisocyanate (MDI)	Human	Sensitizing

**Germ Cell Mutagenicity** 

Name	Route	Value		
Polymethylene Polyphenylene Isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification		
Talc	In Vitro	Not mutagenic		
Talc	In vivo	Not mutagenic		
P,P'-Methylenebis(phenyl 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		

Carcinogenicity

Name	Route	Species	Value
Polymethylene Polyphenylene Isocyanate	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Talc	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
Diphenylmethane Diisocyanate (MDI)	Inhalation	Rat	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
Polymethylene Polyphenylene Isocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
Tale	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesi s
P,P'-Methylenebis(phenyl 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

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene Polyphenylene 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	
Diphenylmethane	Inhalation	respiratory irritation	May cause respiratory irritation	official	NOAEL Not	

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### 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Urethane Adhesive EC-3549 B/A Part A

Diisocyanate (MDI)		classifica	available	
		tion		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
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
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
Diphenylmethane Diisocyanate (MDI)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 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**

No data available.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

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

Dispose of 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.

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with

the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

# **SECTION 16: Other information**

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

Health: 2 Flammability: 1 Instability: 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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