

# Safety Data Sheet

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 03/03/2025

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# IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Multi-Material Composite Urethane Adhesive DP6310NS

#### **Product Identification Numbers**

62-3590-1448-7

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Identified uses

Adhesive

# 1.3. Details of the supplier of the safety data sheet

**ADDRESS:** 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

**Telephone:** 09-961 5000

E Mail: innovation.il@mmm.com

Website: www.3M.com/il

### 1.4. Emergency telephone number

09-961 5000

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:

36-3464-9, 36-3467-2

# TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

# KIT LABEL

# 2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

# **CLASSIFICATION:**

Acute Toxicity, Category 4 - Acute Tox. 4; H332

# 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334

Skin Sensitization, Category 1 - Skin Sens. 1; H317

Carcinogenicity, Category 2 - Carc. 2; H351

Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

Danger

### **Symbols:**

GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

### **Pictograms**





#### **Contains:**

4,4'-Methylenediphenyl diisocyanate, oligomers; PIPERAZINE.

### **HAZARD STATEMENTS:**

H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.

H373	May cause damage to organs through prolonged or repeated exposure: respiratory system.

H412 Harmful to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P260A Do not breathe vapors.

P280K Wear protective gloves and respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

### For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

### <=125 ml Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

# <=125 ml Precautionary statements

#### **Prevention:**

P280K Wear protective gloves and respiratory protection.

### Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

## Information required per Regulation (EU) 2020/1149 as regards diisocyanates:

As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo

### **Revision information:**

Kit Information: Component document group number(s) information was modified.

Section 02: <125ml Precautionary - Prevention information was modified.



# Safety Data Sheet

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Document Group:36-3464-9Version Number:1.00Revision Date:03/03/2025Supercedes Date:Initial Issue

**Transportation version number:** 

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### 1.1. Product identifier

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Multi-Material Composite Urethane Adhesive DP6310NS, Part A

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### **Identified uses**

Adhesive

### 1.3. Details of the supplier of the safety data sheet

**ADDRESS:** 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

**Telephone:** 09-961 5000

E Mail: innovation.il@mmm.com

Website: www.3M.com/il

### 1.4. Emergency telephone number

09-961 5000

# **SECTION 2: Hazard identification**

# 2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

### **CLASSIFICATION:**

Acute Toxicity, Category 4 - Acute Tox. 4; H332

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334

Skin Sensitization, Category 1 - Skin Sens. 1; H317

Carcinogenicity, Category 2 - Carc. 2; H351

Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373

Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

For full text of H phrases, see Section 16.

### 2.2. Label elements

### CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

Danger

# **Symbols:**

GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

### **Pictograms**





### **Ingredients:**

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

4,4'-Methylenediphenyl diisocyanate, oligomers 500-040-3 30 - 70

### **HAZARD STATEMENTS:**

H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure: respiratory system.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P260A Do not breathe vapors.

P280K Wear protective gloves and respiratory protection.

**Response:** 

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

# For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

### <=125 ml Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

### <=125 ml Precautionary statements

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

**Prevention:** 

P260A Do not breathe vapors.

P280K Wear protective gloves and respiratory protection.

**Response:** 

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Contains 2% of components with unknown hazards to the aquatic environment.

# Information required per Regulation (EU) 2020/1149 as regards diisocyanates:

As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo

### 2.3. Other hazards

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates. This material does not contain any substances that are assessed to be a PBT or vPvB

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-Methylenediphenyl diisocyanate,	(EC-No.) 500-040-3	30 -	Carc. 2, H351
oligomers		70	Acute Tox. 4, H332
			Skin Irrit. 2, H315
			Eye Irrit. 2, H319
			Resp. Sens. 1, H334
			Skin Sens. 1, H317
			STOT SE 3, H335
			STOT RE 2, H373
Urethane Prepolymer	Trade Secret	20 -	Substance not classified as hazardous
		40	
Fillers	Trade Secret	10 -	Substance with a national occupational exposure
		30	limit
Talc	(CAS-No.) 14807-	1 - 10	Substance with a national occupational exposure
	96-6		limit
	(EC-No.) 238-877-9		
Silane, dichlorodimethyl-, reaction	(CAS-No.) 68611-	1 - 3	Substance not classified as hazardous
products with silica	44-9		
	(EC-No.) 271-893-4		

Please see section 16 for the full text of any H statements referred to in this section

## **Specific Concentration Limits**

Ingredient	Identifier(s)	Specific Concentration Limits
4,4'-Methylenediphenyl diisocyanate,	(EC-No.) 500-040-3	$(C \ge 5\%)$ Skin Irrit. 2, H315
oligomers		(C >= 5%) Eye Irrit. 2, H319

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

$(C \ge 0.1\%)$ Resp. Sens. 1, H334
$(C \ge 5\%)$ STOT SE 3, H335

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### Inhalation:

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

### **Skin Contact:**

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

### **Eye Contact:**

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

The most important symptoms and effects based on the CLP classification include:

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). Harmful if inhaled. Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. 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. Extinguishing media

DO NOT USE WATER In case of fire: Use a fire fighting agent suitable for water-reactives such as dry chemical 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>	<b>Condition</b>
Carbon monoxide	<b>During Combustion</b>
Carbon dioxide	<b>During Combustion</b>
Hydrogen Chloride	<b>During Combustion</b>
Hydrogen Cyanide	During Combustion
Oxides of Nitrogen	<b>During Combustion</b>
Toxic Vapor, Gas, Particulate	<b>During Combustion</b>

### 5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **SECTION 6: Accidental release measures**

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

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

# 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.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

# **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.

### 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 heat. Store away from acids. Store away from strong bases.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

# **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
Fillers	Trade	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
	Secret		mg/m3	carcin

ACGIH: American Conference of Governmental Industrial Hygienists

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/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

**Indirect Vented Goggles** 

### Skin/hand protection

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

If this product is used in a manner that presents a higher potential for exposure (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

Physical state	Liquid
Specific Physical Form:	Viscous
Color	White
Odor	Slight Isocyanate
Odor threshold	No Data Available
Melting point/freezing point	No Data Available

Boiling point/boiling range	No Data Available
Flammability	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Flash Point	>=195 °C [Test Method: Tagliabue Closed Cup]
Autoignition temperature	Not Applicable
Decomposition temperature	No Data Available
pH	substance/mixture is non-soluble (in water)
Kinematic Viscosity	1,450 mm2/sec
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Vapor Pressure	<=1.3 Pa [@ 25 °C ]
Density	1.288 g/ml
Relative Density	1.288 [ <i>Ref Std</i> :WATER=1]
Relative Vapor Density	>=1 [ <i>Ref Std</i> :AIR=1]
Particle Characteristics	Not Applicable

### 9.2. Other information

### 9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No Data Available

**Evaporation rate** <=1 [Details: Gels with exposure to humidity.]

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

# 10.5. Incompatible materials

Water

Strong acids

Strong bases

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

## 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 agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# 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:

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 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

ricute Tokietty			
Name	Route	Species	Value
Overall product	Inhalation-		No data available; calculated ATE >50 mg/l
	Vapor(4 hr)		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
4,4'-Methylenediphenyl diisocyanate, oligomers	Dermal	Rabbit	LD50 > 5,000 mg/kg

# 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Multi-Material Composite Urethane Adhesive DP6310NS, Part A

4,4'-Methylenediphenyl diisocyanate, oligomers	Inhalation- Dust/Mist	Rat	LC50 0.368 mg/l
	(4 hours)		
4,4'-Methylenediphenyl diisocyanate, oligomers	Ingestion	Rat	LD50 31,600 mg/kg
Urethane Prepolymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Urethane Prepolymer	Ingestion	Rat	LD50 > 5,000 mg/kg
Fillers	Dermal	Rabbit	LD50 > 2,000 mg/kg
Fillers	Inhalation-	Rat	LC50 > 4.57 mg/l
	Dust/Mist		
	(4 hours)		
Fillers	Ingestion	Rat	LD50 > 5,000 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Silane, dichlorodimethyl-, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silane, dichlorodimethyl-, reaction products with silica	Inhalation-	Rat	LC50 > 0.691 mg/l
•	Dust/Mist		-
	(4 hours)		
Silane, dichlorodimethyl-, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

# **Skin Corrosion/Irritation**

Name	Species	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	official	Irritant
	classificat	
	ion	
Fillers	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Silane, dichlorodimethyl-, reaction products with silica	Rabbit	No significant irritation

**Serious Eye Damage/Irritation** 

Name	Species	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	official classificat ion	Severe irritant
Fillers	Rabbit	Mild irritant
Talc	Rabbit	No significant irritation
Silane, dichlorodimethyl-, reaction products with silica	Rabbit	No significant irritation

### **Skin Sensitization**

Name	Species	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	Mouse	Sensitizing
Silane, dichlorodimethyl-, reaction products with silica	Human and	Not classified
	animal	

**Respiratory Sensitization** 

Name	Species	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	Human	Sensitizing
Talc	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	In Vitro	Some positive data exist, but the data are not sufficient for classification
Talc	In Vitro	Not mutagenic

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# 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

Talc	In vivo	Not mutagenic
Silane, dichlorodimethyl-, reaction products with silica	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Tale	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Silane, dichlorodimethyl-, reaction products with 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
4,4'-Methylenediphenyl diisocyanate, oligomers	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Silane, dichlorodimethyl-, reaction products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silane, dichlorodimethyl-, reaction products with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silane, dichlorodimethyl-, reaction products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ	Specific Target Organ Toxicity - single exposure									
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure				
						Duration				
4,4'-Methylenediphenyl	Inhalation	respiratory irritation	May cause respiratory irritation	official	NOAEL Not					
diisocyanate, oligomers				classifica	available					
				tion						

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,4'-Methylenediphenyl diisocyanate, oligomers	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Talc	Inhalation	pneumoconiosis	Repeated and prolonged exposure to large amounts of talc dust can cause lung injury	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis   respiratory system	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Silane, dichlorodimethyl-, reaction products with 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.

### 11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

# **SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

# 12.1. Toxicity

No product test data available

Material	CAS#	Organism	Type	Exposure	Test Endpoint	Test Result
4,4'- Methylenediphenyl diisocyanate, oligomers	500-040-3	Water flea	Analogous Compound	24 hours	EC50	>100 mg/l
Urethane Prepolymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Fillers	Trade Secret	African clawed frog	Analogous Compound	96 hours	LC50	1,800 mg/l
Fillers	Trade Secret	Fathead Minnow	Analogous Compound	96 hours	LC50	>680 mg/l
Fillers	Trade Secret	Green algae	Analogous Compound	72 hours	EC50	130 mg/l
Fillers	Trade Secret	Sediment organism	Analogous Compound	22 days	EC50	364.9 mg/l
Fillers	Trade Secret	Water flea	Analogous Compound	48 hours	EC50	>100 mg/l
Fillers	Trade Secret	Fathead Minnow	Analogous Compound	30 days	NOEC	86.7 mg/l
Fillers	Trade Secret	Green algae	Analogous Compound	72 hours	NOEC	18 mg/l
Fillers	Trade Secret	Water flea	Analogous Compound	21 days	NOEC	32 mg/l
Fillers	Trade Secret	Bacteria	Experimental	16 hours	EC50	950 mg/l
Fillers	Trade Secret	Radish	Experimental	23 days	EC50	4,000 mg/kg (Dry Weight)
Talc	14807-96-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

# 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
4,4'-Methylenediphenyl diisocyanate, oligomers	500-040-3	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	0 %BOD/ThO D	OECD 301C - MITI (I)
4,4'-Methylenediphenyl diisocyanate, oligomers	500-040-3	Analogous Compound Hydrolysis		Hydrolytic half-life (pH 7)	<2 hours (t 1/2)	
Urethane Prepolymer	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Fillers	Trade Secret	Analogous Compound Hydrolysis		Hydrolytic half-life	60 days (t 1/2)	
Talc	14807-96-6	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Silane, dichlorodimethyl-,	68611-44-9	Data not availbl-	N/A	N/A	N/A	N/A

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

reaction products with silica	insufficient		

### 12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
4,4'-Methylenediphenyl diisocyanate, oligomers	500-040-3	Analogous Compound BCF - Fish	28 days	Bioaccumulation Factor	200	
Urethane Prepolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Fillers	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

## 12.4. Mobility in soil

No test data available

### 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

### 12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

### 12.7. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment 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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

### EU waste code (product as sold)

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

# **SECTION 14: Transportation information**

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No Data Available	No Data Available	No Data Available
14.2 UN proper shipping name	No Data Available	No Data Available	No Data Available
14.3 Transport hazard class(es)	No Data Available	No Data Available	No Data Available
14.4 Packing group	No Data Available	No Data Available	No Data Available
14.5 Environmental hazards	No Data Available	No Data Available	No Data Available
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No Data Available	No Data Available	No Data Available
Control Temperature	No Data Available	No Data Available	No Data Available
<b>Emergency Temperature</b>	No Data Available	No Data Available	No Data Available
ADR Classification Code	No Data Available	No Data Available	No Data Available
IMDG Segregation Code	No Data Available	No Data Available	No Data Available

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

# **SECTION 15: Regulatory information**

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

Carcinogenicity

Ingredient
4,4'-Methylenediphenyl diisocyanate, oligomers

C.A.S. No.
500-040-3

Carc. 2

Vendor classified according to Regulation (EC) No 1272/2008

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

Fillers	Trade Secret	Gr. 3: Not classifiable	International Agency
			for Research on Cancer
Talc	14807-96-6	Grp. 2A: Probable	International Agency
		human carc.	for Research on Cancer

## Global inventory status

Contact 3M for more information. 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.

### **DIRECTIVE 2012/18/EU**

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

# Regulation (EU) No 649/2012

No chemicals listed

# **SECTION 16: Other information**

#### List of relevant H statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure: respiratory system.

### **Revision information:**

No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

### 3M Israel SDSs are available at www.3M.com/il



# Safety Data Sheet

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**Document Group:** 36-3467-2 **Version Number:** 2.00

**Revision Date:** 25/07/2025 **Supercedes Date:** 03/03/2025

**Transportation version number:** 

# **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

### 1.1. Product identifier

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Multi-Material Composite Urethane Adhesive DP6310NS, Part B

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### **Identified uses**

Adhesive

### 1.3. Details of the supplier of the safety data sheet

**ADDRESS:** 3M Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120

**Telephone:** 09-961 5000

E Mail: innovation.il@mmm.com

Website: www.3M.com/il

### 1.4. Emergency telephone number

09-961 5000

# **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

### **CLASSIFICATION:**

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

# 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

### **HAZARD STATEMENTS:**

H412 Harmful to aquatic life with long lasting effects.

\_\_\_\_\_

### SUPPLEMENTAL INFORMATION:

**Supplemental Hazard Statements:** 

EUH208 Contains PIPERAZINE. May produce an allergic reaction.

### 2.3. Other hazards

None known

This material does not contain any substances that are assessed to be a PBT or vPvB

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyol	Trade Secret	20 - 50	Substance not classified as hazardous
Polyether Polyol	Trade Secret	10 - 30	Substance not classified as hazardous
Talc	(CAS-No.) 14807- 96-6 (EC-No.) 238-877-9	10 - 30	Substance with a national occupational exposure limit
Urethane Prepolymer	Trade Secret	1 - 10	Substance not classified as hazardous
Thickening Agent	Trade Secret	0.1 - 5	Substance not classified as hazardous
PIPERAZINE	(CAS-No.) 110-85-	< 1	Skin Corr. 1B, H314
	0		Eye Dam. 1, H318
	(EC-No.) 203-808-3		Resp. Sens. 1B, H334
			Skin Sens. 1B, H317
			Repr. 2, H361df
		_	Flam. Sol. 1, H228
2,6-DI-TERT-BUTYL-P-CRESOL	(CAS-No.) 128-37-	< 0.5	Aquatic Chronic 1, H410,M=1
	0		Aquatic Acute 1, H400,M=1
	(EC-No.) 204-881-4		
Quartz Silica	(CAS-No.) 14808-	< 0.3	STOT RE 1, H372
	60-7		
	(EC-No.) 238-878-4		

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

# **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:** 

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part B

### **Eye Contact:**

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

### If Swallowed:

Rinse mouth. If you are concerned, get medical advice.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

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

### 5.1. 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**

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

### 5.3. Advice 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.

Can dition

# **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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### **6.2.** Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

## 6.3. Methods and material for containment and cleaning up

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.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Avoid breathing 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. Avoid release to the environment. 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.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

# **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>
PIPERAZINE	110-85-0	ACGIH	TWA(as piperazine, inhalable fraction & tamp; vapor):0.03 ppm	A4: Not class. as human carcin, Dermal/Respiratory Sensitizer
2,6-DI-TERT-BUTYL-P- CRESOL	128-37-0	ACGIH	TWA(inhalable fraction and vapor):2 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
Quartz Silica	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.

ACGIH: American Conference of Governmental Industrial Hygienists

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/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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Natural Rubber, Neoprene, Nitrile Rubber

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

# 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

Physical state	Liquid
Specific Physical Form:	Paste
Color	Dark Green
Odor	Slight Ammoniacal
Odor threshold	No Data Available
Melting point/freezing point	Not Applicable
Boiling point/boiling range	No Data Available
Flammability	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Flash Point	>=171.1 °C [Test Method:Closed Cup]
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
рН	substance/mixture is non-soluble (in water)
Kinematic Viscosity	1,910 mm2/sec
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Vapor Pressure	<= 0 Pa [@ 20 °C]
Density	1.2 g/ml
Relative Density	1.2 [Ref Std:WATER=1]
Relative Vapor Density	Not Applicable

## 3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part B

Particle Characteristics	Not Applicable

### 9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic CompoundsNo Data AvailableEvaporation rateNot ApplicableMolecular weightNo 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

None known.

## 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Substance

None known.

**Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

# Inhalation:

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

### **Skin Contact:**

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

# **Eye Contact:**

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

### **Ingestion:**

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polyol	Dermal	Rat	LD50 > 2,000 mg/kg
Polyol	Inhalation-	Rat	LC50 > 50  mg/l
	Dust/Mist		
	(4 hours)		
Polyol	Ingestion	Rat	LD50 4,600 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Polyether Polyol	Dermal	similar	LD50 > 2,000 mg/kg
		compoun	
		ds	
Polyether Polyol	Inhalation-	similar	LC50 > 3.2  mg/l
	Dust/Mist	compoun	
	(4 hours)	ds	
Polyether Polyol	Ingestion	similar	LD50 > 5,000 mg/kg
		compoun	
		ds	
PIPERAZINE	Ingestion	Rat	LD50 2,300 mg/kg
2,6-DI-TERT-BUTYL-P-CRESOL	Dermal	Rat	LD50 > 2,000 mg/kg
2,6-DI-TERT-BUTYL-P-CRESOL	Ingestion	Rat	LD50 > 2,930 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Polyol	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Polyether Polyol	similar compoun ds	Minimal irritation
PIPERAZINE	Rabbit	Corrosive
2,6-DI-TERT-BUTYL-P-CRESOL	Human and animal	Minimal irritation
Quartz Silica	Professio nal judgemen t	No significant irritation

# Serious Eye Damage/Irritation

Name	Species	Value
Polyol	Rabbit	Mild irritant
Talc	Rabbit	No significant irritation
Polyether Polyol	similar	Mild irritant
	compoun	
	ds	
PIPERAZINE	similar	Corrosive
	health	
	hazards	
2,6-DI-TERT-BUTYL-P-CRESOL	Rabbit	Mild irritant

# **Skin Sensitization**

Name	Species	Value
Polyether Polyol	similar	Not classified
	compoun	
	ds	
PIPERAZINE	Human	Sensitizing
	and	
	animal	
2,6-DI-TERT-BUTYL-P-CRESOL	Human	Not classified

**Respiratory Sensitization** 

Name	Species	Value
Tale	Human	Not classified
PIPERAZINE	Human	Sensitizing

**Germ Cell Mutagenicity** 

Name	Route	Value
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Polyether Polyol	In Vitro	Not mutagenic
PIPERAZINE	In vivo	Not mutagenic
PIPERAZINE	In Vitro	Some positive data exist, but the data are not sufficient for classification
2,6-DI-TERT-BUTYL-P-CRESOL	In Vitro	Not mutagenic
2,6-DI-TERT-BUTYL-P-CRESOL	In vivo	Not mutagenic
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	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
2,6-DI-TERT-BUTYL-P-CRESOL	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	Inhalation	Human and animal	Carcinogenic

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

N	ame	Route	Value	Species	Test Result	Exposure Duration
T	alc	Ingestion	Not classified for development	Rat	NOAEL	during

				1,600 mg/kg	organogenesis
PIPERAZINE	Ingestion	Toxic to female reproduction	Rat	NOAEL 125 mg/kg/day	2 generation
PIPERAZINE	Ingestion	Toxic to male reproduction	Rat	NOAEL 125 mg/kg/day	2 generation
PIPERAZINE	Ingestion	Toxic to development	Rabbit	NOAEL 94 mg/kg/day	during organogenesis
2,6-DI-TERT-BUTYL-P-CRESOL	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-DI-TERT-BUTYL-P-CRESOL	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-DI-TERT-BUTYL-P-CRESOL	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	2 generation

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
PIPERAZINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
PIPERAZINE	Ingestion	nervous system	Causes damage to organs	Human and animal	NOAEL not available	therapeutic use

Specific Target Organ Toxicity - repeated exposure

Name	Route			Species	Test Result	Exposure Duration
Talc	Inhalation	pneumoconiosis	Repeated and prolonged exposure to large amounts of talc dust can cause lung injury	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis   respiratory system	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
PIPERAZINE	Ingestion	hematopoietic system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1,250 mg/kg/day	90 days
2,6-DI-TERT-BUTYL-P- CRESOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	28 days
2,6-DI-TERT-BUTYL-P- CRESOL	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	2 generation
2,6-DI-TERT-BUTYL-P- CRESOL	Ingestion	blood	Not classified	Rat	LOAEL 420 mg/kg/day	40 days
2,6-DI-TERT-BUTYL-P- CRESOL	Ingestion	endocrine system	Not classified	Rat	NOAEL 25 mg/kg/day	2 generation
2,6-DI-TERT-BUTYL-P- CRESOL	Ingestion	heart	Not classified	Mouse	NOAEL 3,480 mg/kg/day	10 weeks
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	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.

# 11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

# **SECTION 12: Ecological information**

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

# 12.1. Toxicity

No product test data available

Material	CAS#	Organism	Type	Exposure	Test Endpoint	
Polyol	Trade Secret	Golden Orfe	Experimental	96 hours	LC50	>1,000 mg/l
Polyol	Trade Secret	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Polyol	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Polyol	Trade Secret	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Polyether Polyol	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Talc	14807-96-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Urethane Prepolymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Thickening Agent	Trade Secret	Green algae	Estimated	72 hours	EC50	>100 mg/l
Thickening Agent	Trade Secret	Water flea	Estimated	48 hours	EC50	>100 mg/l
Thickening Agent	Trade Secret	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
PIPERAZINE	110-85-0	Activated sludge	Experimental	30 minutes	NOEC	540 mg/l
PIPERAZINE	110-85-0	Bacteria	Experimental	18 hours	NOEC	>1,000 mg/l
PIPERAZINE	110-85-0	Green algae	Experimental	72 hours	EC50	130 mg/l
PIPERAZINE	110-85-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
PIPERAZINE	110-85-0	Water flea	Experimental	48 hours	EC50	21 mg/l
PIPERAZINE	110-85-0	Green algae	Experimental	72 hours	NOEC	34 mg/l
PIPERAZINE	110-85-0	Water flea	Experimental	21 days	NOEC	12.5 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Green algae	Experimental	72 hours	EC50	>0.4 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Water flea	Experimental	48 hours	EC50	0.48 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Green algae	Experimental	72 hours	EC10	0.4 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Medaka	Experimental	42 days	NOEC	0.053 mg/l
2,6-DI-TERT-BUTYL- P-CRESOL	128-37-0	Water flea	Experimental	21 days	NOEC	0.023 mg/l

Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Quartz Silica	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Quartz Silica	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l

# 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Polyol	Trade Secret	Experimental Biodegradation	28 days	Carbon dioxide evolution	38 %CO2 evolution/THC O2 evolution	OECD 301B - Mod. Sturm or CO2
Polyether Polyol	Trade Secret	Modeled Biodegradation	28 days	Biological Oxygen Demand	20 %BOD/ThO D	Catalogic <sup>TM</sup>
Talc	14807-96-6	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Urethane Prepolymer	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Thickening Agent	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
PIPERAZINE	110-85-0	Experimental Biodegradation	28 days	Biological Oxygen Demand	1	OECD 301F - Manometric Respiro
2,6-DI-TERT-BUTYL-P- CRESOL	128-37-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Quartz Silica	14808-60-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A

# 12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
Polyol	Trade Secret	Experimental BCF - Fish	42 days	Bioaccumulation Factor	≤7	
Polyether Polyol	Trade Secret	Modeled Bioconcentration		Bioaccumulation Factor	2	Catalogic™
Polyether Polyol	Trade Secret	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	-2.6	Episuite <sup>TM</sup>
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Urethane Prepolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Thickening Agent	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
PIPERAZINE	110-85-0	Experimental BCF - Fish	42 days	Bioaccumulation Factor	<=3.9	OECD305-Bioconcentration
PIPERAZINE	110-85-0	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-1.24	OECD 107 log Kow shke flsk mtd
2,6-DI-TERT-BUTYL-P- CRESOL	128-37-0	Experimental BCF - Fish	56 days	Bioaccumulation Factor	1277	OECD305-Bioconcentration
Quartz Silica	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

# 12.4. Mobility in soil

Material	Cas No.	Test Type	Study Type	Test Result	Protocol
Polyether Polyol	Trade Secret	Modeled Mobility	Koc	13 l/kg	Episuite <sup>TM</sup>

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		in Soil			
PIPERAZINE	110-85-0	Experimental	Koc	507 l/kg	OECD 106 Adsp-Desb Batch
		Mobility in Soil		_	Equil

### 12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

### 12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

### 12.7. Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment 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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

### EU waste code (product as sold)

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

# **SECTION 14: Transportation information**

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No Data Available	No Data Available	No Data Available
14.2 UN proper shipping name	No Data Available	No Data Available	No Data Available
14.3 Transport hazard class(es)	No Data Available	No Data Available	No Data Available

14.4 Packing group	No Data Available	No Data Available	No Data Available
14.5 Environmental hazards	No Data Available	No Data Available	No Data Available
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No Data Available	No Data Available	No Data Available
Control Temperature	No Data Available	No Data Available	No Data Available
<b>Emergency Temperature</b>	No Data Available	No Data Available	No Data Available
ADR Classification Code	No Data Available	No Data Available	No Data Available
IMDG Segregation Code	No Data Available	No Data Available	No Data Available

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

# **SECTION 15: Regulatory information**

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

## Carcinogenicity

<u>Ingredient</u>	<b>C.A.S. No.</b>	Classification	Regulation
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	Gr. 3: Not classifiable	International Agency
			for Research on Cancer
Quartz Silica	14808-60-7	Grp. 1: Carcinogenic to	International Agency
		humans	for Research on Cancer
Talc	14807-96-6	Grp. 2A: Probable	International Agency
		human carc.	for Research on Cancer

### 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 product are in compliance with the new substance notification requirements of CEPA. 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.

## **DIRECTIVE 2012/18/EU**

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2 None

### Regulation (EU) No 649/2012

No chemicals listed

# **SECTION 16: Other information**

### List of relevant H statements

H228	Flammable solid.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects

#### **Revision information:**

Section 03: Composition/Information of ingredients table information was modified.

Section 06: Accidental release personal information information was modified.

Section 08: Skin protection - recommended gloves information information was deleted.

Section 08: Skin protection - recommended gloves text information was deleted.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 8: Prolonged Glove Statement information was added.

Section 8: Prolonged Glove Types information was added.

Section 8: Prolonged Gloves Suitable for Short Term (with gloves) information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

### 3M Israel SDSs are available at www.3M.com/il