



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

#### 1.1. Product identifier

3M™ Polyurethane Adhesive Sealant 550 Fast Cure (Various Colours)

#### Product Identification Numbers

DE-2729-2937-8      DE-2729-2939-4      DE-2729-2945-1

7000061785      7000061786      7000061789

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

##### Identified uses

Sealant.

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

**Address:** 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.  
**Telephone:** +353 1 280 3555  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com

#### 1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

### 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.

A similar mixture has been tested for eye damage/irritation and the test results do not meet the criteria for classification. The carcinogenicity classification for titanium dioxide is not applicable based on physical form (material is not a powder).

#### CLASSIFICATION:

Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334  
Skin Sensitization, Category 1 - Skin Sens. 1; H317

For full text of H phrases, see Section 16.

## 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### Symbols

GHS08 (Health Hazard) |

#### Pictograms



#### Ingredients:

| Ingredient   | CAS Nbr  | EC No.    | % by Wt |
|--|----------|-----------|---------|
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8 | 202-966-0 | < 1     |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate |          | 915-687-0 | < 0.2   |

#### HAZARD STATEMENTS:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P261A Avoid breathing vapours.  
P280E Wear protective gloves.

##### 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 advice/attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

#### SUPPLEMENTAL INFORMATION:

##### Supplemental Hazard Statements:

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### 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](http://feica.eu/Puinfo)

## 2.3. Other hazards

Persons previously sensitised to isocyanates may develop a cross-sensitisation 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]   |
|--|--|---------|---|
| Urethane Polymer   | Trade Secret   | 25 - 35 | Substance not classified as hazardous   |
| Poly(Vinyl Chloride)   | (CAS-No.) 9002-86-2  | 20 - 35 | Substance with a national occupational exposure limit   |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters  | (EC-No.) 701-257-8<br>(REACH-No.) 01-2119485386-26                         | 10 - 30 | Substance not classified as hazardous   |
| Reaction mass of ethylbenzene and xylene   | (EC-No.) 905-588-0<br>(REACH-No.) 01-2119488216-32                         | <= 7    | Acute Tox. 4, H332<br>Acute Tox. 4, H312<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373          |
| Titanium dioxide   | (CAS-No.) 13463-67-7<br>(EC-No.) 236-675-5<br>(REACH-No.) 01-2119489379-17 | < 3     | Substance with a national occupational exposure limit   |
| Calcium oxide  | (CAS-No.) 1305-78-8<br>(EC-No.) 215-138-9<br>(REACH-No.) 01-2119475325-36  | < 2.5   | EUH071<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318   |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | (EC-No.) 926-141-6<br>(REACH-No.) 01-2119456620-43                         | < 2     | Asp. Tox. 1, H304<br>EUH066   |
| 4,4'-methylenediphenyl diisocyanate  | (CAS-No.) 101-68-8<br>(EC-No.) 202-966-0                                   | < 1     | Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Nota 2,C |
| Carbon black   | (CAS-No.) 1333-86-4<br>(EC-No.) 215-609-9<br>(REACH-No.) 01-2119384822-32  | < 0.3   | Substance with a national occupational exposure limit   |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | (EC-No.) 915-687-0<br>(REACH-No.) 01-2119491304-40                         | < 0.2   | Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1<br>Skin Sens. 1A, H317<br>Repr. 2, H361f   |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.  
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  |
|-------------------------------------|---|--|
| Calcium oxide                       | (CAS-No.) 1305-78-8<br>(EC-No.) 215-138-9<br>(REACH-No.) 01-2119475325-36 | (C >= 50%) EUH071<br>(C >= 50%) Skin Corr. 1C, H314<br>(10% <= C < 50%) Skin Irrit. 2, H315<br>(C >= 3%) Eye Dam. 1, H318<br>(1% <= C < 3%) Eye Irrit. 2, H319<br>(20% <= C < 50%) STOT SE 3, H335 |
| 4,4'-methylenediphenyl diisocyanate | (CAS-No.) 101-68-8<br>(EC-No.) 202-966-0                                  | (C >= 5%) Skin Irrit. 2, H315<br>(C >= 5%) Eye Irrit. 2, H319<br>(C >= 0.1%) Resp. Sens. 1, H334<br>(C >= 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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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:

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). 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. Extinguishing media

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

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

None inherent in this product.

**Hazardous Decomposition or By-Products**

**Substance**

Carbon monoxide  
 Carbon dioxide.  
 Hydrogen Chloride  
 Hydrogen cyanide.  
 Oxides of nitrogen.  
 Oxides of sulphur.

**Condition**

During combustion.  
 During combustion.  
 During combustion.  
 During combustion.  
 During combustion.  
 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.

**SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

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

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. Dispose of collected material as soon as possible.

**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**

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

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

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Protect from sunlight. Store away from heat. Store away from amines.

**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.

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b> | <b>Limit type</b> | <b>Additional comments</b> |
|-------------------|----------------|---------------|-------------------|----------------------------|
|-------------------|----------------|---------------|-------------------|----------------------------|

|                                     |            |              |  |                                       |
|-------------------------------------|------------|--------------|--|---------------------------------------|
| CAS NO SEQ911373                    | 101-68-8   | Ireland OELs | TWA(8 hours):0.02 mg/m <sup>3</sup> ;STEL(15 minutes):0.07 mg/m <sup>3</sup>   | as NCO                                |
| Free isocyanates                    | 101-68-8   | Ireland OELs | TWA(8 hours):0.02 mg/m <sup>3</sup> ;STEL(15 minutes):0.07 mg/m <sup>3</sup>   | as NCO                                |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8   | Ireland OELs | TWA(as NCO)(8 hours):0.005 ppm;TWA(8 hours):0.005 ppm  | as NCO, Respiratory/Dermal Sensitizer |
| Calcium oxide                       | 1305-78-8  | Ireland OELs | TWA(respirable fraction)(8 hours):1 mg/m <sup>3</sup> ;TWA(respirable fraction)(8 hours):1 mg/m <sup>3</sup> ;STEL(respirable fraction)(15 minutes):4 mg/m <sup>3</sup> ;STEL(respirable fraction)(15 minutes):4 mg/m <sup>3</sup> |                                       |
| Carbon black                        | 1333-86-4  | Ireland OELs | TWA(inhalable fraction)(8 hours):3 mg/m <sup>3</sup>   |                                       |
| Titanium dioxide                    | 13463-67-7 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m <sup>3</sup> ;TWA(as respirable dust)(8 hours):4 mg/m <sup>3</sup>  |                                       |
| Poly(Vinyl Chloride)                | 9002-86-2  | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m <sup>3</sup> ;TWA(as respirable dust)(8 hours):1 mg/m <sup>3</sup>  |                                       |

Ireland OELs : Ireland. OELs  
TWA: Time-Weighted-Average  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

### Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**Recommended monitoring procedures:**Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

## 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.

#### Applicable Norms/Standards

Use eye protection conforming to EN 166

#### 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:

| <b>Material</b>  | <b>Thickness (mm)</b> | <b>Breakthrough Time</b> |
|------------------|-----------------------|--------------------------|
| Polymer laminate | No data available     | No data available        |
| Fluoroelastomer  | 0.4                   | =>8 hours                |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

#### *Applicable Norms/Standards*

Use gloves tested to EN 374

#### **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.

#### *Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136: filter types A & P

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

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

|   |  |
|---|--|
| <b>Physical state</b>                         | Solid.   |
| <b>Specific Physical Form:</b>                | Paste  |
| <b>Colour</b>                                 | Multicolor   |
| <b>Odor</b>                                   | Mild Xylene  |
| <b>Odour threshold</b>                        | <i>No data available.</i>                          |
| <b>Melting point/freezing point</b>           | <i>No data available.</i>                          |
| <b>Boiling point/boiling range</b>            | >=137 °C   |
| <b>Flammability (solid, gas)</b>              | Not classified                                     |
| <b>Flammable Limits(LEL)</b>                  | <i>Not applicable.</i>                             |
| <b>Flammable Limits(UEL)</b>                  | <i>Not applicable.</i>                             |
| <b>Flash point</b>                            | No flash point                                     |
| <b>Autoignition temperature</b>               | >=200 °C   |
| <b>Decomposition temperature</b>              | <i>No data available.</i>                          |
| <b>pH</b>                                     | <i>substance/mixture is non-soluble (in water)</i> |
| <b>Kinematic Viscosity</b>                    | 250,000 mm <sup>2</sup> /sec                       |
| <b>Water solubility</b>                       | Nil  |
| <b>Solubility- non-water</b>                  | <i>No data available.</i>                          |
| <b>Partition coefficient: n-octanol/water</b> | <i>No data available.</i>                          |
| <b>Vapour pressure</b>                        | <i>Not applicable.</i>                             |
| <b>Density</b>                                | 1.2 g/ml   |
| <b>Relative density</b>                       | 1.2 [Ref Std: WATER=1]                             |
| <b>Relative Vapour Density</b>                | <i>Not applicable.</i>                             |

### **9.2. Other information**

### 9.2.2 Other safety characteristics

|                               |                    |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Evaporation rate              | No data available. |
| Molecular weight              | No data available. |
| Solids content                | 91 - 95.4 % weight |

## 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 polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Amines.  
Alcohols.  
Water

### 10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not 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

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. 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**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:**

**Single exposure may cause target organ effects:**

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.  
Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

**Additional information:**

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

**Toxicological Data**

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

**Acute Toxicity**

| Name   | Route                          | Species                | Value  |
|--|--------------------------------|------------------------|--|
| Overall product  | Dermal                         |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product  | Inhalation-Vapour(4 hr)        |                        | No data available; calculated ATE >50 mg/l     |
| Overall product  | Ingestion                      |                        | No data available; calculated ATE >5,000 mg/kg |
| Poly(Vinyl Chloride)   | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| Poly(Vinyl Chloride)   | Ingestion                      |                        | LD50 estimated to be > 5,000 mg/kg             |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters        | Dermal                         | Rat                    | LD50 > 1,000 mg/kg                             |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters        | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |
| Reaction mass of ethylbenzene and xylene                             | Dermal                         | Rabbit                 | LD50 > 4,200 mg/kg                             |
| Reaction mass of ethylbenzene and xylene                             | Inhalation-Vapour (4 hours)    | Rat                    | LC50 29 mg/l                                   |
| Reaction mass of ethylbenzene and xylene                             | Ingestion                      | Rat                    | LD50 3,523 mg/kg                               |
| Titanium dioxide   | Dermal                         | Rabbit                 | LD50 > 10,000 mg/kg                            |
| Titanium dioxide   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 6.82 mg/l                               |
| Titanium dioxide   | Ingestion                      | Rat                    | LD50 > 10,000 mg/kg                            |
| Calcium oxide  | Ingestion                      | Rat                    | LD50 > 2,500 mg/kg                             |
| Calcium oxide  | Dermal                         | similar compounds      | LD50 > 2,500 mg/kg                             |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Inhalation-Vapour              | Professional judgement | LC50 estimated to be 20 - 50 mg/l              |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%           | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |

**3M™ Polyurethane Adhesive Sealant 550 Fast Cure (Various Colours)**

|  |                                |                        |  |
|--|--------------------------------|------------------------|--|
| aromatics  |                                |                        |  |
| 4,4'-methylenediphenyl diisocyanate  | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| 4,4'-methylenediphenyl diisocyanate  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 0.368 mg/l                          |
| 4,4'-methylenediphenyl diisocyanate  | Ingestion                      | Rat                    | LD50 31,600 mg/kg                        |
| Carbon black   | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                       |
| Carbon black   | Ingestion                      | Rat                    | LD50 > 8,000 mg/kg                       |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion                      | Rat                    | LD50 3,125 mg/kg                         |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Poly(Vinyl Chloride)   | Professional judgement  | No significant irritation |
| Reaction mass of ethylbenzene and xylene   | Rabbit                  | Mild irritant             |
| Titanium dioxide   | Rabbit                  | No significant irritation |
| Calcium oxide  | Human                   | Corrosive                 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | Rabbit                  | Minimal irritation        |
| 4,4'-methylenediphenyl diisocyanate  | official classification | Irritant                  |
| Carbon black   | Rabbit                  | No significant irritation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rabbit                  | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Overall product  | Rabbit                  | Mild irritant             |
| Reaction mass of ethylbenzene and xylene   | Rabbit                  | Mild irritant             |
| Titanium dioxide   | Rabbit                  | No significant irritation |
| Calcium oxide  | Rabbit                  | Corrosive                 |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | Rabbit                  | Mild irritant             |
| 4,4'-methylenediphenyl diisocyanate  | official classification | Severe irritant           |
| Carbon black   | Rabbit                  | No significant irritation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rabbit                  | Mild irritant             |

**Skin Sensitisation**

| Name   | Species                 | Value          |
|--|-------------------------|----------------|
| Titanium dioxide   | Human and animal        | Not classified |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | Guinea pig              | Not classified |
| 4,4'-methylenediphenyl diisocyanate  | official classification | Sensitising    |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Guinea pig              | Sensitising    |

**Respiratory Sensitisation**

| Name                                | Species | Value       |
|-------------------------------------|---------|-------------|
| 4,4'-methylenediphenyl diisocyanate | Human   | Sensitising |

**Germ Cell Mutagenicity**

| Name   | Route    | Value  |
|--|----------|--|
| Poly(Vinyl Chloride)   | In Vitro | Not mutagenic  |
| Reaction mass of ethylbenzene and xylene   | In Vitro | Not mutagenic  |
| Reaction mass of ethylbenzene and xylene   | In vivo  | Not mutagenic  |
| Titanium dioxide   | In Vitro | Not mutagenic  |
| Titanium dioxide   | In vivo  | Not mutagenic  |
| Calcium oxide  | In Vitro | Not mutagenic  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | In Vitro | Not mutagenic  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | In vivo  | Not mutagenic  |
| 4,4'-methylenediphenyl diisocyanate  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon black   | In Vitro | Not mutagenic  |
| Carbon black   | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | In vivo  | Not mutagenic  |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name   | Route          | Species                 | Value  |
|--|----------------|-------------------------|--|
| Poly(Vinyl Chloride)   | Not specified. | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Reaction mass of ethylbenzene and xylene                             | Dermal         | Rat                     | Not carcinogenic   |
| Reaction mass of ethylbenzene and xylene                             | Ingestion      | Multiple animal species | Not carcinogenic   |
| Reaction mass of ethylbenzene and xylene                             | Inhalation     | Human                   | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide   | Ingestion      | Multiple animal species | Not carcinogenic   |
| Titanium dioxide   | Inhalation     | Rat                     | Carcinogenic.  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not specified. | Not available           | Not carcinogenic   |
| 4,4'-methylenediphenyl diisocyanate                                  | Inhalation     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Carbon black   | Dermal         | Mouse                   | Not carcinogenic   |
| Carbon black   | Ingestion      | Mouse                   | Not carcinogenic   |
| Carbon black   | Inhalation     | Rat                     | Carcinogenic.  |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name                                     | Route          | Value                                  | Species                 | Test result         | Exposure Duration     |
|--|----------------|--|-------------------------|---------------------|-----------------------|
| Poly(Vinyl Chloride)                     | Not specified. | Not classified for development         | Mouse                   | NOAEL Not available | during gestation      |
| Reaction mass of ethylbenzene and xylene | Inhalation     | Not classified for female reproduction | Human                   | NOAEL Not available | occupational exposure |
| Reaction mass of ethylbenzene and xylene | Ingestion      | Not classified for development         | Mouse                   | NOAEL Not available | during organogenesis  |
| Reaction mass of ethylbenzene and xylene | Inhalation     | Not classified for development         | Multiple animal species | NOAEL Not available | during gestation      |
| Hydrocarbons, C11-C14, n-alkanes,        | Not            | Not classified for female reproduction | Rat                     | NOAEL Not           | 1 generation          |

**3M™ Polyurethane Adhesive Sealant 550 Fast Cure (Various Colours)**

|  |                |                                      |     |                       |                            |
|--|----------------|--------------------------------------|-----|-----------------------|----------------------------|
| isoalkanes, cyclics, <2% aromatics   | specified.     |                                      |     | available             |                            |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | Not specified. | Not classified for male reproduction | Rat | NOAEL Not available   | 1 generation               |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | Not specified. | Not classified for development       | Rat | NOAEL Not available   | 1 generation               |
| 4,4'-methylenediphenyl diisocyanate  | Inhalation     | Not classified for development       | Rat | NOAEL 0.004 mg/l      | during organogenesis       |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion      | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days                    |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion      | Not classified for development       | Rat | NOAEL 209 mg/kg/day   | prematuring into lactation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion      | Toxic to female reproduction         | Rat | NOAEL 804 mg/kg/day   | prematuring into lactation |

**Lactation**

| Name                                     | Route     | Species | Value  |
|--|-----------|---------|--|
| Reaction mass of ethylbenzene and xylene | Ingestion | Mouse   | Not classified for effects on or via lactation |

**Target Organ(s)**
**Specific Target Organ Toxicity - single exposure**

| Name                                     | Route      | Target Organ(s)                   | Value  | Species                 | Test result         | Exposure Duration     |
|--|------------|-----------------------------------|--|-------------------------|---------------------|-----------------------|
| Reaction mass of ethylbenzene and xylene | Inhalation | auditory system                   | Causes damage to organs  | Rat                     | LOAEL 6.3 mg/l      | 8 hours               |
| Reaction mass of ethylbenzene and xylene | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                       |
| Reaction mass of ethylbenzene and xylene | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                       |
| Reaction mass of ethylbenzene and xylene | Inhalation | eyes                              | Not classified   | Rat                     | NOAEL 3.5 mg/l      | not available         |
| Reaction mass of ethylbenzene and xylene | Inhalation | liver                             | Not classified   | Multiple animal species | NOAEL Not available |                       |
| Reaction mass of ethylbenzene and xylene | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Multiple animal species | NOAEL Not available |                       |
| Reaction mass of ethylbenzene and xylene | Ingestion  | eyes                              | Not classified   | Rat                     | NOAEL 250 mg/kg     | not applicable        |
| Calcium oxide                            | Inhalation | respiratory irritation            | May cause respiratory irritation   | Not available           | NOAEL Not available | occupational exposure |
| 4,4'-methylenediphenyl diisocyanate      | Inhalation | respiratory irritation            | May cause respiratory irritation   | official classification | NOAEL Not available |                       |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                     | Route      | Target Organ(s)    | Value   | Species                 | Test result      | Exposure Duration |
|--|------------|--------------------|---|-------------------------|------------------|-------------------|
| Poly(Vinyl Chloride)                     | Inhalation | respiratory system | Not classified  | Multiple animal species | NOAEL 0.013 mg/l | 22 months         |
| Reaction mass of ethylbenzene and xylene | Inhalation | nervous system     | Causes damage to organs through prolonged or repeated exposure    | Rat                     | LOAEL 0.4 mg/l   | 4 weeks           |
| Reaction mass of ethylbenzene and xylene | Inhalation | auditory system    | May cause damage to organs through prolonged or repeated exposure | Rat                     | LOAEL 7.8 mg/l   | 5 days            |
| Reaction mass of                         | Inhalation | liver              | Not classified  | Multiple                | NOAEL Not        |                   |

**3M™ Polyurethane Adhesive Sealant 550 Fast Cure (Various Colours)**

|  |            |  |  |                         |                       |                       |
|--|------------|--|--|-------------------------|-----------------------|-----------------------|
| ethylbenzene and xylene  |            |  |  | animal species          | available             |                       |
| Reaction mass of ethylbenzene and xylene   | Inhalation | heart   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   respiratory system                | Not classified   | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks              |
| Reaction mass of ethylbenzene and xylene   | Ingestion  | auditory system  | Not classified   | Rat                     | NOAEL 900 mg/kg/day   | 2 weeks               |
| Reaction mass of ethylbenzene and xylene   | Ingestion  | kidney and/or bladder  | Not classified   | Rat                     | NOAEL 1,500 mg/kg/day | 90 days               |
| Reaction mass of ethylbenzene and xylene   | Ingestion  | liver  | Not classified   | Multiple animal species | NOAEL Not available   |                       |
| Reaction mass of ethylbenzene and xylene   | Ingestion  | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system | Not classified   | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks             |
| Titanium dioxide   | Inhalation | respiratory system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 0.01 mg/l       | 2 years               |
| Titanium dioxide   | Inhalation | pulmonary fibrosis   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| 4,4'-methylenediphenyl diisocyanate  | Inhalation | respiratory system   | Causes damage to organs through prolonged or repeated exposure               | Rat                     | LOAEL 0.004 mg/l      | 13 weeks              |
| Carbon black   | Inhalation | pneumoconiosis   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion  | eyes   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 300 mg/kg/day   | 28 days               |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion  | gastrointestinal tract   liver   immune system   heart   endocrine system   hematopoietic system   nervous system   kidney and/or bladder      | Not classified   | Rat                     | NOAEL 1,493 mg/kg/day | 29 days               |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| Reaction mass of ethylbenzene and xylene                             | Aspiration hazard |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | Aspiration hazard |

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

**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  |
|--|--------------|------------------|---|----------|--------------------------------|--------------|
| Poly(Vinyl Chloride)   | 9002-86-2    | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | N/A          |
| Urethane Polymer   | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | NA           |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters        | 701-257-8    | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | N/A          |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Green algae      | Estimated   | 73 hours | EC50                           | 1.3 mg/l     |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Rainbow trout    | Estimated   | 96 hours | LC50                           | 2.6 mg/l     |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Water flea       | Estimated   | 24 hours | IC50                           | 1 mg/l       |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Green algae      | Estimated   | 73 hours | NOEC                           | 0.44 mg/l    |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Rainbow trout    | Estimated   | 56 days  | NOEC                           | >1.3 mg/l    |
| Reaction mass of ethylbenzene and xylene                             | 905-588-0    | Water flea       | Estimated   | 7 days   | NOEC                           | 0.96 mg/l    |
| Titanium dioxide   | 13463-67-7   | Diatom           | Experimental  | 72 hours | EC50                           | >10,000 mg/l |
| Titanium dioxide   | 13463-67-7   | Fathead minnow   | Experimental  | 96 hours | No tox obs at lmt of water sol | >100 mg/l    |
| Titanium dioxide   | 13463-67-7   | Water flea       | Experimental  | 48 hours | No tox obs at lmt of water sol | >100 mg/l    |
| Titanium dioxide   | 13463-67-7   | Diatom           | Experimental  | 72 hours | NOEC                           | 5,600 mg/l   |
| Calcium oxide  | 1305-78-8    | Common Carp      | Experimental  | 96 hours | LC50                           | 1,070 mg/l   |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6    | Green algae      | Experimental  | 72 hours | EL50                           | >1,000 mg/l  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6    | Rainbow trout    | Experimental  | 96 hours | LL50                           | >1,000 mg/l  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6    | Water flea       | Experimental  | 48 hours | EL50                           | >1,000 mg/l  |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | 926-141-6    | Green algae      | Experimental  | 72 hours | NOEL                           | 1,000 mg/l   |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8     | Activated sludge | Estimated   | 3 hours  | EC50                           | >100 mg/l    |

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|  |           |                  |   |          |       |             |
|--|-----------|------------------|---|----------|-------|-------------|
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Green algae      | Estimated   | 72 hours | EC50  | >1,640 mg/l |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Water flea       | Estimated   | 24 hours | EC50  | >1,000 mg/l |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Zebra Fish       | Estimated   | 96 hours | LC50  | >1,000 mg/l |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Green algae      | Estimated   | 72 hours | NOEC  | 1,640 mg/l  |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Water flea       | Estimated   | 21 days  | NOEC  | 10 mg/l     |
| Carbon black   | 1333-86-4 | Activated sludge | Experimental  | 3 hours  | EC50  | ≥100 mg/l   |
| Carbon black   | 1333-86-4 | N/A              | Data not available or insufficient for classification | N/A      | N/A   | N/A         |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Activated sludge | Experimental  | 3 hours  | IC50  | ≥100 mg/l   |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Green algae      | Experimental  | 72 hours | ErC50 | 1.68 mg/l   |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Zebra Fish       | Experimental  | 96 hours | LC50  | 0.9 mg/l    |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Green algae      | Experimental  | 72 hours | NOEC  | 0.22 mg/l   |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Water flea       | Experimental  | 21 days  | NOEC  | 1 mg/l      |

**12.2. Persistence and degradability**

| Material  | CAS Nbr      | Test type                       | Duration | Study Type | Test result  | Protocol                            |
|---|--------------|---------------------------------|----------|------------|--------------|-------------------------------------|
| Poly(Vinyl Chloride)  | 9002-86-2    | Data not available/insufficient | N/A      | N/A        | N/A          | N/A                                 |
| Urethane Polymer  | Trade Secret | Data not available/insufficient | N/A      | N/A        | N/A          | N/A                                 |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters | 701-257-8    | Data not available/insufficient | N/A      | N/A        | N/A          | N/A                                 |
| Reaction mass of ethylbenzene and xylene                      | 905-588-0    | Experimental Biodegradation     | 28 days  | BOD        | 98 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Titanium dioxide  | 13463-67-7   | Data not available/insufficient | N/A      | N/A        | N/A          | N/A                                 |
| Calcium oxide   | 1305-78-8    | Data not available/insufficient | N/A      | N/A        | N/A          | N/A                                 |

**3M™ Polyurethane Adhesive Sealant 550 Fast Cure (Various Colours)**

|  |           |                                   |         |                                |                    |                                     |
|--|-----------|-----------------------------------|---------|--------------------------------|--------------------|-------------------------------------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | 926-141-6 | Experimental Biodegradation       | 28 days | BOD                            | 69 %BOD/ThO D      | OECD 301F - Manometric respirometry |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Estimated Hydrolysis              |         | Hydrolytic half-life           | 20 hours (t 1/2)   |                                     |
| Carbon black   | 1333-86-4 | Data not available - insufficient | N/A     | N/A                            | N/A                | N/A                                 |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Experimental Biodegradation       | 28 days | Dissolv. Organic Carbon Deplet | 38 %removal of DOC | OECD 301E - Modif. OECD Screen      |

**12.3 : Bioaccumulative potential**

| Material   | Cas No.      | Test type   | Duration | Study Type             | Test result | Protocol                 |
|--|--------------|---|----------|------------------------|-------------|--------------------------|
| Poly(Vinyl Chloride)   | 9002-86-2    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| Urethane Polymer   | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters  | 701-257-8    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| Reaction mass of ethylbenzene and xylene   | 905-588-0    | Experimental BCF - Fish                               | 56 days  | Bioaccumulation factor | 25.9        |                          |
| Titanium dioxide   | 13463-67-7   | Experimental BCF - Fish                               | 42 days  | Bioaccumulation factor | 9.6         |                          |
| Calcium oxide  | 1305-78-8    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics   | 926-141-6    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8     | Experimental BCF - Fish                               | 28 days  | Bioaccumulation factor | 200         | OECD305-Bioconcentration |
| Carbon black   | 1333-86-4    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                      |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0    | Analogous Compound BCF - Fish                         | 56 days  | Bioaccumulation factor | 31.4        |                          |

**12.4. Mobility in soil**

| Material   | Cas No.   | Test type                  | Study Type | Test result  | Protocol  |
|--|-----------|----------------------------|------------|--------------|-----------|
| 4,4'-methylenediphenyl diisocyanate  | 101-68-8  | Estimated Mobility in Soil | Koc        | 34,000 l/kg  | Episuite™ |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Modeled Mobility in Soil   | Koc        | 200,000 l/kg | Episuite™ |

**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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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/EC 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)**

- 08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances
- 20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

**SECTION 14: Transportation information**

Not hazardous for transportation.

|  | <b>Ground Transport (ADR)</b> | <b>Air Transport (IATA)</b> | <b>Marine Transport (IMDG)</b> |
|--|-------------------------------|-----------------------------|--------------------------------|
| <b>14.1 UN number or ID number</b>     | No data available.            | No data available.          | No data available.             |
| <b>14.2 UN proper shipping name</b>    | No data available.            | No data available.          | No data available.             |
| <b>14.3 Transport hazard class(es)</b> | No data available.            | No data available.          | No data available.             |
| <b>14.4 Packing group</b>              | No data available.            | No data available.          | No data available.             |
| <b>14.5 Environmental hazards</b>      | No data available.            | No data available.          | No data available.             |

|   |  |  |  |
|---|--|--|--|
| <b>14.6 Special precautions for user</b>                          | 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. |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>  | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>                                      | No data available.   | No data available.   | No data available.   |
| <b>ADR Classification Code</b>                                    | No data available.   | No data available.   | No data available.   |
| <b>IMDG Segregation Code</b>                                      | 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**

| <b><u>Ingredient</u></b>            | <b><u>CAS Nbr</u></b> | <b><u>Classification</u></b>  | <b><u>Regulation</u></b>   |
|-------------------------------------|-----------------------|-------------------------------|--|
| Carbon black                        | 1333-86-4             | Grp. 2B: Possible human carc. | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8              | Carc. 2                       | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8              | Gr. 3: Not classifiable       | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| Poly(Vinyl Chloride)                | 9002-86-2             | Gr. 3: Not classifiable       | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| Titanium dioxide                    | 13463-67-7            | Grp. 2B: Possible human carc. | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |

#### **Restrictions on the manufacture, placing on the market and use:**

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| <b><u>Ingredient</u></b>            | <b><u>CAS Nbr</u></b> |
|-------------------------------------|-----------------------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8              |

Restriction status: listed in REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

#### **Global inventory status**

Contact manufacturer 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 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. 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.

**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

**15.2. Chemical Safety Assessment**

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

**SECTION 16: Other information****List of relevant H statements**

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                      |
| EUH071 | Corrosive to the respiratory tract.  |
| H226   | Flammable liquid and vapour.   |
| H304   | May be fatal if swallowed and enters airways.                              |
| H312   | Harmful in contact with skin.  |
| H314   | Causes severe skin burns and eye damage.                                   |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                                       |
| H318   | Causes serious eye damage.   |
| 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.   |
| H361f  | Suspected of damaging fertility.   |
| H373   | May cause damage to organs through prolonged or repeated exposure.         |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.                      |

**Revision information:**

Section 3: Composition/ Information of ingredients table information was modified.

Section 6: Accidental release personal information information was modified.

Section 8: glove data value information was added.

Section 8: glove data value information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Bioaccumulative potential information information was modified.

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