



## Safety Data Sheet

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**Document group:** 09-3093-3  
**Revision date:** 15/03/2024

**Version number:** 12.05  
**Supersedes date:** 04/01/2024

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

#### 1.1. Product identifier

3M Scotch-Weld™ Urethane Structural Adhesive DP-610 (Part B)

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

##### Identified uses

Structural adhesive.

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

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.  
**Telephone:** +44 (0)1344 858 000  
**E Mail:** tox.uk@mmm.com  
**Website:** www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

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:

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

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

**The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain****SIGNAL WORD**

WARNING.

**Symbols**

GHS07 (Exclamation mark) |

**Pictograms**

| Ingredient                                                                                                             | CAS Nbr   | EC No.    | % by Wt |
|------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|
| 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 | 1 - 5   |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | 220-449-8 | 1 - 5   |

**HAZARD STATEMENTS:**

|      |                                                    |
|------|----------------------------------------------------|
| H317 | May cause an allergic skin reaction.               |
| H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS****Prevention:**

|       |                         |
|-------|-------------------------|
| P280E | Wear protective gloves. |
|-------|-------------------------|

**Response:**

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
|-------------|------------------------------------------------------------------|

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

**<=125 ml Hazard statements**

|      |                                                    |
|------|----------------------------------------------------|
| H317 | May cause an allergic skin reaction.               |
| H412 | Harmful to aquatic life with long lasting effects. |

**<=125 ml Precautionary statements****Prevention:**

|       |                         |
|-------|-------------------------|
| P280E | Wear protective gloves. |
|-------|-------------------------|

**Response:**

|             |                                                                  |
|-------------|------------------------------------------------------------------|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
|-------------|------------------------------------------------------------------|

Contains 58% of components with unknown hazards to the aquatic environment.

**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], as amended for GB                |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------|---------------------------------------------------------------------------------------------------|
| Polyester                                                                                                              | Trade Secret                               | 40 - 70 | Substance not classified as hazardous                                                             |
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | (CAS-No.) 37625-56-2<br>(EC-No.) 500-099-5 | 15 - 40 | Substance not classified as hazardous                                                             |
| 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                         | 1 - 5   | Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1<br>Skin Sens. 1A, H317<br>Repr. 2, H361f |
| Trimethoxyvinylsilane                                                                                                  | (CAS-No.) 2768-02-7<br>(EC-No.) 220-449-8  | 1 - 5   | Skin Sens. 1B, H317<br>Flam. Liq. 3, H226<br>Acute Tox. 4, H332                                   |
| TRIMETHYLOLPROPANE                                                                                                     | (CAS-No.) 77-99-6<br>(EC-No.) 201-074-9    | <= 3    | Repr. 2, H361df                                                                                   |

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

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

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

#### If swallowed

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

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

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

| <u>Substance</u>    | <u>Condition</u>   |
|---------------------|--------------------|
| Carbon monoxide     | During combustion. |
| Carbon dioxide.     | During combustion. |
| 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.

## SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

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

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required.

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

Keep container tightly closed.

### 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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

#### Biological limit values

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Eye protection not required.

##### Skin/hand protection

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

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

| Material         | Thickness (mm)    | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |

##### *Applicable Norms/Standards*

Use gloves tested to EN 374

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

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

## SECTION 9: Physical and chemical properties

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

|                              |                       |
|------------------------------|-----------------------|
| Physical state               | Liquid.               |
| Specific Physical Form:      | Liquid.               |
| Colour                       | Transparent Colorless |
| Odor                         | Light Polyester       |
| Odour threshold              | No data available.    |
| Melting point/freezing point | Not applicable.       |
| Boiling point/boiling range  | No data available.    |

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| <b>Flammability (solid, gas)</b>              | Not applicable.                                    |
| <b>Flammable Limits(LEL)</b>                  | <i>No data available.</i>                          |
| <b>Flammable Limits(UEL)</b>                  | <i>No data available.</i>                          |
| <b>Flash point</b>                            | ≥100 °C [ <i>Test Method: Estimated</i> ]          |
| <b>Autoignition temperature</b>               | <i>No data available.</i>                          |
| <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>                    | 25 - 40 mm <sup>2</sup> /sec [ <i>@ 23 °C</i> ]    |
| <b>Water solubility</b>                       | <i>No data available.</i>                          |
| <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>No data available.</i>                          |
| <b>Density</b>                                | <i>No data available.</i>                          |
| <b>Relative density</b>                       | 1.1 - 1.17 [ <i>Ref Std: WATER=1</i> ]             |
| <b>Relative Vapour Density</b>                | <i>No data available.</i>                          |
| <b>Particle Characteristics</b>               | <i>Not applicable.</i>                             |

## 9.2. Other information

### 9.2.2 Other safety characteristics

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>EU Volatile Organic Compounds</b> | <i>No data available.</i> |
| <b>Evaporation rate</b>              | <i>No data available.</i> |
| <b>Molecular weight</b>              | <i>No data available.</i> |
| <b>Percent volatile</b>              | ≤1 %                      |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

None known.

### 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 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 3M assessments.

#### 11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

#### Signs and Symptoms of Exposure

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

##### Inhalation

No known health effects.

##### Skin contact

Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### Eye contact

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

##### Ingestion

May cause additional health effects (see below).

#### Additional Health Effects:

##### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Toxicological Data

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

#### Acute Toxicity

| Name                                                                                                                   | Route                       | Species                | Value                                          |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------|------------------------------------------------|
| Overall product                                                                                                        | Dermal                      |                        | No data available; calculated ATE >5,000 mg/kg |
| Overall product                                                                                                        | Inhalation-Vapour(4 hr)     |                        | No data available; calculated ATE >50 mg/l     |
| Overall product                                                                                                        | Ingestion                   |                        | No data available; calculated ATE >5,000 mg/kg |
| ε-Caprolactone, oligomeric reaction products with propylidyntrimethanol                                                | Dermal                      | Professional judgement | LD50 estimated to be > 5,000 mg/kg             |
| ε-Caprolactone, oligomeric reaction products with propylidyntrimethanol                                                | Ingestion                   | Rat                    | LD50 > 2,000 mg/kg                             |
| TRIMETHYLOLPROPANE                                                                                                     | Dermal                      | Rabbit                 | LD50 > 10,000 mg/kg                            |
| TRIMETHYLOLPROPANE                                                                                                     | Ingestion                   | Rat                    | LD50 > 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 | 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                               |
| Trimethoxyvinylsilane                                                                                                  | Dermal                      | Rabbit                 | LD50 3,260 mg/kg                               |
| Trimethoxyvinylsilane                                                                                                  | Inhalation-Vapour (4 hours) | Rat                    | LC50 16.8 mg/l                                 |
| Trimethoxyvinylsilane                                                                                                  | Ingestion                   | Rat                    | LD50 7,120 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                                                                                                   | Species | Value                     |
|------------------------------------------------------------------------------------------------------------------------|---------|---------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | Rabbit  | No significant irritation |
| TRIMETHYLOLPROPANE                                                                                                     | 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        |
| Trimethoxyvinylsilane                                                                                                  | Rabbit  | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name                                                                                                                   | Species | Value                     |
|------------------------------------------------------------------------------------------------------------------------|---------|---------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | Rabbit  | No significant irritation |
| TRIMETHYLOLPROPANE                                                                                                     | 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             |
| Trimethoxyvinylsilane                                                                                                  | Rabbit  | No significant irritation |

**Skin Sensitisation**

| Name                                                                                                                   | Species    | Value                                                                        |
|------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | Mouse      | Not classified                                                               |
| TRIMETHYLOLPROPANE                                                                                                     | Mouse      | Not classified                                                               |
| 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                                                                  |
| Trimethoxyvinylsilane                                                                                                  | Guinea pig | Some positive data exist, but the data are not sufficient for classification |

**Respiratory Sensitisation**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

| Name                                                                                                                   | Route    | Value                                                                        |
|------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | In Vitro | Not mutagenic                                                                |
| TRIMETHYLOLPROPANE                                                                                                     | In Vitro | 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 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 |
| Trimethoxyvinylsilane                                                                                                  | In vivo  | Not mutagenic                                                                |
| Trimethoxyvinylsilane                                                                                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

For the component/components, either no data is currently available or the data is not sufficient for classification.

**Reproductive Toxicity**
**Reproductive and/or Developmental Effects**

| Name                                                                     | Route     | Value                          | Species | Test result                      | Exposure Duration |
|--------------------------------------------------------------------------|-----------|--------------------------------|---------|----------------------------------|-------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol | Ingestion | Not classified for development | Rat     | NOAEL 1,000 mg/kg                | during gestation  |
| TRIMETHYLOLPROPANE                                                       | Ingestion | Toxic to female reproduction   | Rat     | NOAEL 2200 ppm in drinking water | 2 generation      |
| TRIMETHYLOLPROPANE                                                       | Ingestion | Toxic to male reproduction     | Rat     | NOAEL 2200 ppm in                | 2 generation      |



|                                                                                                                        |            |                                        |     |                                 |                          |
|------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------|-----|---------------------------------|--------------------------|
|                                                                                                                        |            |                                        |     | drinking water                  |                          |
| TRIMETHYLOLPROPANE                                                                                                     | Ingestion  | Toxic to development                   | Rat | LOAEL 740 ppm in drinking water | 2 generation             |
| 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             | premating 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             | premating into lactation |
| Trimethoxyvinylsilane                                                                                                  | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 1,000 mg/kg/day           | premating into lactation |
| Trimethoxyvinylsilane                                                                                                  | Ingestion  | Not classified for development         | Rat | NOAEL 1,000 mg/kg/day           | premating into lactation |
| Trimethoxyvinylsilane                                                                                                  | Ingestion  | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day           | premating into lactation |
| Trimethoxyvinylsilane                                                                                                  | Inhalation | Not classified for development         | Rat | NOAEL 1.8 mg/l                  | during organogenesis     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

For the component/components, either no data is currently available or the data is not sufficient for classification.

#### Specific Target Organ Toxicity - repeated exposure

| Name                                                                                                                   | Route      | Target Organ(s)                                                                                                                                                                          | Value                                                                        | Species | Test result         | Exposure Duration |
|------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|---------------------|-------------------|
| TRIMETHYLOLPROPANE                                                                                                     | Inhalation | heart   gastrointestinal tract   hematopoietic system   liver   immune system   kidney and/or bladder   respiratory system                                                               | Not classified                                                               | Rat     | NOAEL 0.02 mg/l     | 15 days           |
| TRIMETHYLOLPROPANE                                                                                                     | Inhalation | endocrine system                                                                                                                                                                         | Not classified                                                               |         | NOAEL 0.02 mg/l     | 15 days           |
| TRIMETHYLOLPROPANE                                                                                                     | Ingestion  | hematopoietic system   liver   kidney and/or bladder   heart   skin   endocrine system   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   respiratory system | Not classified                                                               | Rat     | NOAEL 667 mg/kg/day | 90 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  | eyes                                                                                                                                                                                     | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 300 mg/kg/day | 28 days           |
| Reaction mass of                                                                                                       | Ingestion  | gastrointestinal tract                                                                                                                                                                   | Not classified                                                               | Rat     | NOAEL               | 29 days           |

|                                                                                                       |            |                                                                                                                  |                                                                              |     |                       |          |
|-------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----|-----------------------|----------|
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate |            | liver   immune system   heart   endocrine system   hematopoietic system   nervous system   kidney and/or bladder |                                                                              |     | 1,493 mg/kg/day       |          |
| Trimethoxyvinylsilane                                                                                 | Inhalation | kidney and/or bladder                                                                                            | Not classified                                                               | Rat | NOAEL mg/l            | 14 weeks |
| Trimethoxyvinylsilane                                                                                 | Inhalation | hematopoietic system   eyes                                                                                      | Not classified                                                               | Rat | NOAEL 2.4 mg/l        | 14 weeks |
| Trimethoxyvinylsilane                                                                                 | Ingestion  | kidney and/or bladder                                                                                            | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day   | 40 days  |
| Trimethoxyvinylsilane                                                                                 | Ingestion  | endocrine system   hematopoietic system   liver   immune system                                                  | Not classified                                                               | Rat | NOAEL 1,000 mg/kg/day | 40 days  |

### Aspiration Hazard

For the component/components, either no data is currently available or the data is 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 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 |
|--------------------------------------------------------------------------|------------|-------------|--------------|----------|---------------|-------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol | 37625-56-2 | Bacteria    | Experimental | 16 hours | NOEC          | 670 mg/l    |
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol | 37625-56-2 | Green algae | Experimental | 72 hours | ErC50         | 490 mg/l    |
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol | 37625-56-2 | Water flea  | Experimental | 48 hours | EC50          | >900 mg/l   |
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol | 37625-56-2 | Zebra Fish  | Experimental | 96 hours | LC50          | 150 mg/l    |
| ε-Caprolactone, oligomeric reaction products with                        | 37625-56-2 | Green algae | Experimental | 72 hours | ErC10         | 240 mg/l    |

**3M Scotch-Weld™ Urethane Structural Adhesive DP-610 (Part B)**

|                                                                                                                        |           |                   |              |          |       |             |
|------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|--------------|----------|-------|-------------|
| propylidynetrimethanol                                                                                                 |           |                   |              |          |       |             |
| 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      |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Bacteria          | Experimental | 5 hours  | EC10  | 1.1 mg/l    |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Green algae       | Experimental | 72 hours | EC50  | >957 mg/l   |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Rainbow trout     | Experimental | 96 hours | LC50  | 191 mg/l    |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Water flea        | Experimental | 48 hours | EC50  | 169 mg/l    |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Green algae       | Experimental | 72 hours | NOEC  | 957 mg/l    |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Water flea        | Experimental | 21 days  | NOEC  | 28 mg/l     |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Activated sludge  | Experimental | 3 hours  | EC50  | >1,000 mg/l |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Green algae       | Experimental | 72 hours | EbC50 | >1,000 mg/l |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Invertebrate      | Experimental | 96 hours | LC50  | 5,250 mg/l  |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Medaka            | Experimental | 96 hours | LC50  | >1,000 mg/l |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Sheepshead Minnow | Experimental | 96 hours | LC50  | 14,400 mg/l |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Water flea        | Experimental | 48 hours | EC50  | 13,000 mg/l |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Water flea        | Experimental | 21 days  | NOEC  | >1,000 mg/l |

## 12.2. Persistence and degradability

| Material                                                                                                               | CAS Nbr    | Test type                   | Duration | Study Type                     | Test result                       | Protocol                            |
|------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------|----------|--------------------------------|-----------------------------------|-------------------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | 37625-56-2 | Experimental Biodegradation | 28 days  | CO2 evolution                  | 77 %CO2 evolution/THCO2 evolution | OECD 301B - Modified Sturm or CO2   |
| 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      |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7  | Experimental Biodegradation | 28 days  | BOD                            | 51 %BOD/ThOD                      | OECD 301F - Manometric respirometry |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6    | Experimental Biodegradation | 28 days  | Dissolv. Organic Carbon Deplet | 6 %removal of DOC                 |                                     |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6    | Experimental Biodegradation | 28 days  | Dissolv. Organic Carbon Deplet | 100 %removal of DOC               | OECD 302B Zahn-Wellens/EVPA         |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6    | Experimental Hydrolysis     |          | Hydrolytic half-life (pH 7)    | >1 years (t 1/2)                  | OECD 111 Hydrolysis func of pH      |

## 12.3 : Bioaccumulative potential

| Material                                                                                                               | Cas No.    | Test type                     | Duration | Study Type             | Test result | Protocol                     |
|------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------|----------|------------------------|-------------|------------------------------|
| ε-Caprolactone, oligomeric reaction products with propylidynetrimethanol                                               | 37625-56-2 | Experimental Bioconcentration |          | Log Kow                | 2.4         | OECD 117 log Kow HPLC method |
| 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        |                              |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7  | Estimated Bioconcentration    |          | Log Kow                | -2          |                              |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6    | Experimental BCF - Fish       | 42 days  | Bioaccumulation factor | 16.2        | OECD305-Bioconcentration     |

## 12.4. Mobility in soil

| Material                                                                                                               | Cas No.   | Test type                  | Study Type | Test result  | Protocol  |
|------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|------------|--------------|-----------|
| 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™ |
| Trimethoxyvinylsilane                                                                                                  | 2768-02-7 | Estimated Mobility in Soil | Koc        | 650 l/kg     | Episuite™ |
| TRIMETHYLOLPROPANE                                                                                                     | 77-99-6   | Modeled Mobility in Soil   | Koc        | 1.499 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. Other adverse effects

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

## 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. 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.

|                                                                                  | Ground Transport (ADR)                                                 | Air Transport (IATA)                                                   | Marine Transport (IMDG)                                                |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>14.1 UN 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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</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

#### Global inventory status

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

#### COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

#### Regulation (EU) No 649/2012, as amended for GB

No chemicals listed

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended for GB.

## SECTION 16: Other information

### List of relevant H statements

|        |                                                                          |
|--------|--------------------------------------------------------------------------|
| H226   | Flammable liquid and vapour.                                             |
| H317   | May cause an allergic skin reaction.                                     |
| H332   | Harmful if inhaled.                                                      |
| H361df | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H361f  | Suspected of damaging fertility.                                         |
| 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 09: Particle Characteristics N/A 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

**3M SDSs for Great Britain are available at [www.3M.com/uk](http://www.3M.com/uk)**

For Northern Ireland documents, please contact your 3M representative to obtain a copy.