



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
| <b>Document group:</b>                | 33-7297-6         | <b>Version number:</b>  | 4.00       |
| <b>Revision date:</b>                 | 21/02/2022        | <b>Supersedes date:</b> | 28/11/2019 |
| <b>Transportation version number:</b> | 2.00 (18/01/2018) |                         |            |

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

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

#### 1.1. Product identifier

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

#### Product Identification Numbers

87-3300-0133-7

7100155464

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

##### Identified uses

Two-Component Polyurethane Adhesive

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

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

**Website:** [www.3M.com/uk](http://www.3M.com/uk)

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

33-7288-5, 33-7296-8

### TRANSPORTATION INFORMATION

87-3300-0133-7

Not hazardous for transportation

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

## KIT LABEL

### 2.1. Classification of the substance or mixture

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

##### CLASSIFICATION:

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

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

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

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

Carcinogenicity, Category 2 - Carc. 2; H351

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

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

For full text of H phrases, see Section 16.

### 2.2. Label elements

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

##### SIGNAL WORD

DANGER.

##### Symbols

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

##### Pictograms



Contains:

4,4'-methylenediphenyl diisocyanate; Formaldehyde, oligomeric reaction products with aniline and phosgene; o-(p-isocyanatobenzyl)phenyl isocyanate; Polymethylene polyphenylene isocyanate

##### HAZARD STATEMENTS:

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

##### PRECAUTIONARY STATEMENTS

##### Prevention:

P260A Do not breathe vapours.  
P280E Wear protective gloves.

**Response:**

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

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

**<=125 ml Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.

**<=125 ml Precautionary statements**

**Prevention:**

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.

**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)**

**Revision information:**

Label: CLP Percent Unknown - Kit information was deleted.  
Label: CLP Ingredients - kit components information was modified.  
Section 2: <125ml Hazard - Health information was modified.  
Section 2: <125ml Precautionary - Prevention information was modified.  
Section 2: <125ml Precautionary - Response information was modified.  
Label: CLP Classification information was modified.  
Label: CLP Precautionary - Response information was modified.  
Section 02: Regulation (EU) 2020/1149 Statement information was added.



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 33-7288-5  | <b>Version number:</b>  | 5.00       |
| <b>Revision date:</b>  | 17/08/2021 | <b>Supersedes date:</b> | 23/07/2019 |

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™ Scotch-Weld™ Urethane Adhesive EC-3549NF B/A Part A

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

##### Identified uses

Automotive.

#### 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

CLP REGULATION (EC) No 1272/2008

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

##### CLASSIFICATION:

Acute Toxicity, Category 4 - Acute Tox. 4; H332  
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319  
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Carcinogenicity, Category 2 - Carc. 2; H351

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

For full text of H phrases, see Section 16.

**2.2. Label elements**

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

**SIGNAL WORD**

DANGER.

**Symbols**

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

**Pictograms**



**Ingredients:**

| Ingredient   | CAS Nbr    | EC No.    | % by Wt |
|--|------------|-----------|---------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4 | 500-079-6 | 10 - 30 |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9  |           | 10 - 30 |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1  | 227-534-9 | 1 - 10  |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8   | 202-966-0 | 1 - 10  |

**HAZARD STATEMENTS:**

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

**PRECAUTIONARY STATEMENTS**

**Prevention:**

|       |  |
|-------|--|
| P260A | Do not breathe vapours.                            |
| P280K | Wear protective gloves and respiratory protection. |

**Response:**

|                    |  |
|--------------------|--|
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P342 + P311        | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.  |

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

**<=125 ml Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.

**<=125 ml Precautionary statements**

**Prevention:**

P280K Wear protective gloves and respiratory protection.

**Response:**

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

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

**As from 24 August 2023 adequate training is required before industrial or professional use.**

**2.3. Other hazards**

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

**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 Prepolymer  | Trade Secret                               | 25 - 30 | Substance not classified as hazardous   |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | (CAS-No.) 32055-14-4<br>(EC-No.) 500-079-6 | 10 - 30 | 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 |
| Polymethylene polyphenylene isocyanate                               | (CAS-No.) 9016-87-9                        | 10 - 30 | 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 |
| Talc   | (CAS-No.) 14807-96-6<br>(EC-No.) 238-877-9 | 10 - 30 | Substance with a national occupational exposure limit   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | (CAS-No.) 5873-54-1<br>(EC-No.) 227-534-9  | 1 - 10  | Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |

|                                     |   |        |   |
|-------------------------------------|---|--------|---|
|                                     |   |        | 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  |
| 4,4'-methylenediphenyl diisocyanate | (CAS-No.) 101-68-8<br>(EC-No.) 202-966-0  | 1 - 10 | 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 |
| Zeolites                            | (CAS-No.) 1318-02-1<br>(EC-No.) 215-283-8 | < 2    | Substance with a national occupational exposure limit   |

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   |
|--|--|---|
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | (CAS-No.) 5873-54-1<br>(EC-No.) 227-534-9  | (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 |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | (CAS-No.) 32055-14-4<br>(EC-No.) 500-079-6 | (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 |
| 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 |
| Polymethylene polyphenylene isocyanate                               | (CAS-No.) 9016-87-9                        | (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. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**

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

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

The most important symptoms and effects based on the CLP classification include:  
Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Harmful if inhaled. Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. See Section 11 for additional details.

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

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

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

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

None inherent in this product.

**Hazardous Decomposition or By-Products**

| <u>Substance</u>    | <u>Condition</u>   |
|---------------------|--------------------|
| Isocyanates         | During combustion. |
| Carbon monoxide     | During combustion. |
| Carbon dioxide.     | During combustion. |
| Hydrogen cyanide.   | During combustion. |
| Oxides of nitrogen. | During combustion. |

**5.3. 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does



not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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**

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

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

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases. Store away from oxidising agents. 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> |
|-------------------|----------------|---------------|--|----------------------------|
| Aluminium oxides  | 1318-02-1      | UK HSC        | TWA(as respirable dust):4 mg/m <sup>3</sup> ;TWA(as inhalable dust):10 mg/m <sup>3</sup> |                            |
| Talc              | 14807-96-6     | UK HSC        | TWA(as respirable dust):1 mg/m <sup>3</sup>  |                            |
| Free isocyanates  | 9016-87-9      | UK HSC        | TWA(as NCO):0.02 mg/m <sup>3</sup> ;STEL(as NCO):0.07 mg/m <sup>3</sup>                  | Respiratory Sensitizer     |

UK HSC : UK Health and Safety Commission  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

**Biological limit values**

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b> | <b>Determinant</b>         | <b>Biological Specimen</b> | <b>Sampling Time</b> | <b>Value</b> | <b>Additional comments</b> |
|-------------------|----------------|---------------|----------------------------|----------------------------|----------------------|--------------|----------------------------|
| Free isocyanates  | 9016-87-9      | UK EH40 BMGVs | Isocyanate-derived diamine | Creatinine in urine        | EPE                  | 1 umol/mol   |                            |

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)  
 EPE: At the end of the period of exposure.

**Recommended monitoring procedures:** Information on recommended monitoring procedures can be obtained from UK HSC

## 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:  
Indirect vented goggles.

#### *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.

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

| <b>Material</b> | <b>Thickness (mm)</b> | <b>Breakthrough Time</b> |
|-----------------|-----------------------|--------------------------|
| Butyl rubber.   | 0.5                   | =>8 hours                |
| Neoprene.       | 0.5                   | =>8 hours                |
| Nitrile rubber. | 0.35                  | =>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

Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber

Neoprene apron.

Apron – Nitrile

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

Half facepiece or full facepiece supplied-air respirator

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

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

|  |  |
|--|--|
| Physical state                         | Liquid.  |
| Specific Physical Form:                | Paste  |
| Colour                                 | Brown  |
| Odor                                   | Slight Odor  |
| Odour threshold                        | <i>No data available.</i>                          |
| Melting point/freezing point           | <i>Not applicable.</i>                             |
| Boiling point/boiling range            | $\geq 186.1$ °C                                    |
| Flammability (solid, gas)              | Not applicable.                                    |
| Flammable Limits(LEL)                  | <i>Not applicable.</i>                             |
| Flammable Limits(UEL)                  | <i>Not applicable.</i>                             |
| Flash point                            | $\geq 186.1$ °C [ <i>Test Method: Closed Cup</i> ] |
| Autoignition temperature               | <i>Not applicable.</i>                             |
| Decomposition temperature              | <i>No data available.</i>                          |
| pH                                     | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity                    | <i>No data available.</i>                          |
| Water solubility                       | Negligible   |
| Solubility- non-water                  | <i>No data available.</i>                          |
| Partition coefficient: n-octanol/water | <i>No data available.</i>                          |
| Density                                | 1.31 g/ml  |
| Relative density                       | 1.31 [ <i>Ref Std: WATER=1</i> ]                   |
| Relative Vapor Density                 | <i>No data available.</i>                          |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

|                               |                           |
|-------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate              | <i>Not applicable.</i>    |
| Molecular weight              | <i>Not applicable.</i>    |
| Percent volatile              | 0 % 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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

### 10.5 Incompatible materials

Amines.  
Alcohols.  
Water

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

#### 10.6 Hazardous decomposition products

##### Substance

##### Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

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

#### Signs and Symptoms of Exposure

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

##### **Inhalation**

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

##### **Skin contact**

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

##### **Eye contact**

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

##### **Ingestion**

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

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

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

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

##### **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  | Inhalation-Vapour(4 hr)        |         | No data available; calculated ATE >50 mg/l     |
| Overall product  | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Urethane Prepolymer  | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Urethane Prepolymer  | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Polymethylene polyphenylene isocyanate                               | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| Polymethylene polyphenylene isocyanate                               | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| Polymethylene polyphenylene isocyanate                               | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| Talc   | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Talc   | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| 4,4'-methylenediphenyl diisocyanate                                  | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Ingestion                      | Rat     | LD50 31,600 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                              |
| Zeolites   | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| Zeolites   | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 4.57 mg/l                               |
| Zeolites   | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species                 | Value                     |
|--|-------------------------|---------------------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | official classification | Irritant                  |
| Polymethylene polyphenylene isocyanate                               | official classification | Irritant                  |
| Talc   | Rabbit                  | No significant irritation |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | official classification | Irritant                  |
| 4,4'-methylenediphenyl diisocyanate                                  | official classification | Irritant                  |
| Zeolites   | Rabbit                  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name   | Species  | Value           |
|--|----------|-----------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | official | Severe irritant |

|   |                                |                           |
|---|--------------------------------|---------------------------|
|   | classificat<br>ion             |                           |
| Polymethylene polyphenylene isocyanate  | official<br>classificat<br>ion | Severe irritant           |
| Talc                                    | Rabbit                         | No significant irritation |
| o-(p-isocyanatobenzyl)phenyl isocyanate | official<br>classificat<br>ion | Severe irritant           |
| 4,4'-methylenediphenyl diisocyanate     | official<br>classificat<br>ion | Severe irritant           |
| Zeolites                                | Rabbit                         | Mild irritant             |

### Skin Sensitisation

| Name   | Species                        | Value       |
|--|--------------------------------|-------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | official<br>classificat<br>ion | Sensitising |
| Polymethylene polyphenylene isocyanate                               | official<br>classificat<br>ion | Sensitising |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | official<br>classificat<br>ion | Sensitising |
| 4,4'-methylenediphenyl diisocyanate                                  | official<br>classificat<br>ion | Sensitising |

### Respiratory Sensitisation

| Name   | Species | Value          |
|--|---------|----------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Human   | Sensitising    |
| Polymethylene polyphenylene isocyanate                               | Human   | Sensitising    |
| Talc   | Human   | Not classified |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Human   | Sensitising    |
| 4,4'-methylenediphenyl diisocyanate                                  | Human   | Sensitising    |

### Germ Cell Mutagenicity

| Name   | Route    | Value  |
|--|----------|--|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Polymethylene polyphenylene isocyanate                               | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc   | In Vitro | Not mutagenic  |
| Talc   | In vivo  | Not mutagenic  |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-methylenediphenyl diisocyanate                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name   | Route      | Species | Value  |
|--|------------|---------|--|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| Polymethylene polyphenylene isocyanate                               | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| Talc   | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |

|                                     |            |     |  |
|-------------------------------------|------------|-----|--|
| 4,4'-methylenediphenyl diisocyanate | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
|-------------------------------------|------------|-----|--|

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name   | Route      | Value                          | Species | Test result          | Exposure Duration    |
|--|------------|--------------------------------|---------|----------------------|----------------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Inhalation | Not classified for development | Rat     | NOAEL<br>0.004 mg/l  | during organogenesis |
| Polymethylene polyphenylene isocyanate                               | Inhalation | Not classified for development | Rat     | NOAEL<br>0.004 mg/l  | during organogenesis |
| Talc   | Ingestion  | Not classified for development | Rat     | NOAEL<br>1,600 mg/kg | during organogenesis |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Inhalation | Not classified for development | Rat     | NOAEL<br>0.004 mg/l  | during organogenesis |
| 4,4'-methylenediphenyl diisocyanate                                  | Inhalation | Not classified for development | Rat     | NOAEL<br>0.004 mg/l  | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name   | Route      | Target Organ(s)        | Value                            | Species                 | Test result         | Exposure Duration |
|--|------------|------------------------|----------------------------------|-------------------------|---------------------|-------------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| Polymethylene polyphenylene isocyanate                               | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| 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     |
|--|------------|---|--|---------|----------------------------|-----------------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | Inhalation | respiratory system                      | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l        | 13 weeks              |
| Polymethylene polyphenylene isocyanate                               | Inhalation | respiratory system                      | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l        | 13 weeks              |
| Talc   | Inhalation | pneumoconiosis                          | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL Not available        | occupational exposure |
| Talc   | Inhalation | pulmonary fibrosis   respiratory system | Not classified   | Rat     | NOAEL 18 mg/m <sup>3</sup> | 113 weeks             |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | Inhalation | respiratory system                      | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l        | 13 weeks              |
| 4,4'-methylenediphenyl diisocyanate                                  | Inhalation | respiratory system                      | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL<br>0.004 mg/l        | 13 weeks              |

## 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 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 |
|--|--------------|------------------|---|----------|--------------------------------|-------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4   | Green algae      | Estimated   | 72 hours | EL50                           | >100 mg/l   |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4   | Water flea       | Estimated   | 24 hours | EC50                           | >100 mg/l   |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4   | Green algae      | Estimated   | 72 hours | NOEL                           | 100 mg/l    |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Green algae      | Analogous Compound                                    | 72 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Water flea       | Analogous Compound                                    | 24 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Green algae      | Analogous Compound                                    | 72 hours | No tox obs at lmt of water sol | >100 mg/l   |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Activated sludge | Analogous Compound                                    | 3 hours  | EC50                           | >100 mg/l   |
| Talc   | 14807-96-6   |                  | Data not available or insufficient for classification |          |                                | N/A         |
| Urethane Prepolymer  | Trade Secret | Water flea       | Estimated   | 24 hours | EC50                           | >100 mg/l   |
| Urethane Prepolymer  | Trade Secret | Zebra Fish       | Estimated   | 24 hours | LC50                           | >100 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Activated sludge | Estimated   | 3 hours  | EC50                           | >100 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Green algae      | Estimated   | 72 hours | EC50                           | >100 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Green algae      | Estimated   | 72 hours | EC50                           | >1,640 mg/l |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Water flea       | Estimated   | 24 hours | EC50                           | >100 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Water flea       | Estimated   | 24 hours | EC50                           | >1,000 mg/l |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Zebra Fish       | Estimated   | 96 hours | LC50                           | >100 mg/l   |



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

|   |           |                  |              |          |      |             |
|---|-----------|------------------|--------------|----------|------|-------------|
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Zebra Fish       | Estimated    | 96 hours | LC50 | >1,000 mg/l |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Activated sludge | Experimental | 3 hours  | EC50 | >100 mg/l   |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Green algae      | Estimated    | 72 hours | NOEC | 1,640 mg/l  |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Green algae      | Estimated    | 72 hours | NOEL | 100 mg/l    |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Water flea       | Estimated    | 21 days  | NOEC | 10 mg/l     |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Water flea       | Estimated    | 21 days  | NOEC | 100 mg/l    |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Activated sludge | Estimated    | 3 hours  | EC50 | >100 mg/l   |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Green algae      | Estimated    | 72 hours | EC50 | >100 mg/l   |
| 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 | >100 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 | >100 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  | Activated sludge | Experimental | 3 hours  | EC50 | >100 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  | Green algae      | Estimated    | 72 hours | NOEL | 100 mg/l    |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Water flea       | Estimated    | 21 days  | NOEC | 10 mg/l     |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Water flea       | Estimated    | 21 days  | NOEC | 100 mg/l    |
| Zeolites                                | 1318-02-1 | Green algae      | Experimental | 96 hours | EC50 | >100 mg/l   |
| Zeolites                                | 1318-02-1 | Zebra Fish       | Experimental | 96 hours | LC50 | >100 mg/l   |
| Zeolites                                | 1318-02-1 | Green algae      | Experimental | 72 hours | NOEC | >100 mg/l   |
| Zeolites                                | 1318-02-1 | Water flea       | Experimental | 21 days  | NOEC | 100 mg/l    |

**12.2. Persistence and degradability**

| Material   | CAS Nbr      | Test type                                      | Duration | Study Type           | Test result      | Protocol                       |
|--|--------------|--|----------|----------------------|------------------|--------------------------------|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4   | Data not available - insufficient              |          |                      | N/A              |                                |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Analogous Compound Hydrolysis                  |          | Hydrolytic half-life | 20 hours (t 1/2) |                                |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Analogous Compound Aquatic Inherent Biodegrad. | 28 days  | BOD                  | 0 % BOD/ThBOD    | OECD 302C - Modified MITI (II) |
| Talc   | 14807-96-6   | Data not available - insufficient              |          |                      | N/A              |                                |
| Urethane Prepolymer  | Trade Secret | Data not available - insufficient              |          |                      | N/A              |                                |

|   |           |                                   |  |                      |                  |                     |
|---|-----------|-----------------------------------|--|----------------------|------------------|---------------------|
|   |           | insufficient                      |  |                      |                  |                     |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Estimated Hydrolysis              |  | Hydrolytic half-life | 20 hours (t 1/2) | Non-standard method |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Data not available - insufficient |  |                      | N/A              |                     |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Estimated Hydrolysis              |  | Hydrolytic half-life | 20 hours (t 1/2) | Non-standard method |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Data not available - insufficient |  |                      | N/A              |                     |
| Zeolites                                | 1318-02-1 | Data not available - insufficient |  |                      | N/A              |                     |

### 12.3 : Bioaccumulative potential

| Material   | Cas No.      | Test type   | Duration | Study Type             | Test result | Protocol   |
|--|--------------|---|----------|------------------------|-------------|--|
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4   | Estimated Bioconcentration                            | 28 days  | Bioaccumulation factor | 200         | OECD 305E - Bioaccumulation flow-through fish test |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Analogous Compound BCF-Carp                           | 28 days  | Bioaccumulation factor | 200         | OECD305-Bioconcentration                           |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9    | Analogous Compound Bioconcentration                   |          | Log Kow                | 4.51        |  |
| Talc   | 14807-96-6   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A  |
| Urethane Prepolymer  | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A  |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Estimated BCF-Carp                                    | 28 days  | Bioaccumulation factor | 200         | Non-standard method                                |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1    | Experimental BCF-Carp                                 | 28 days  | Bioaccumulation factor | 200         | OECD 305E - Bioaccumulation flow-through fish test |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8     | Estimated BCF-Carp                                    | 28 days  | Bioaccumulation factor | 200         | Non-standard method                                |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8     | Experimental BCF-Carp                                 | 28 days  | Bioaccumulation factor | 200         | OECD 305E - Bioaccumulation flow-through fish test |
| Zeolites   | 1318-02-1    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A  |

### 12.4. Mobility in soil

| Material                                | Cas No.   | Test type                  | Study Type | Test result  | Protocol  |
|---|-----------|----------------------------|------------|--------------|-----------|
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Estimated Mobility in Soil | Koc        | 300,000 l/kg | Episuite™ |
| o-(p-isocyanatobenzyl)phenyl isocyanate | 5873-54-1 | Estimated Mobility in Soil | Koc        | 34,000 l/kg  | Episuite™ |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Estimated Mobility in Soil | Koc        | 300,000 l/kg | Episuite™ |
| 4,4'-methylenediphenyl diisocyanate     | 101-68-8  | Estimated Mobility in Soil | Koc        | 34,000 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 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.

|  | <b>Ground Transport (ADR)</b> | <b>Air Transport (IATA)</b> | <b>Marine Transport (IMDG)</b> |
|--|-------------------------------|-----------------------------|--------------------------------|
| <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 Tunnel Code</b>   | No data available.   | Not applicable.  | No data available.   |
| <b>ADR Classification Code</b>   | No data available.   | No data available.   | No data available.   |
| <b>ADR Transport Category</b>  | No data available.   | No data available.   | No data available.   |
| <b>ADR Multiplier</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

| <u>Ingredient</u>  | <u>CAS Nbr</u> | <u>Classification</u>   | <u>Regulation</u>                                       |
|--|----------------|-------------------------|---|
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1      | Carc. 2                 | Regulation (EC) No. 1272/2008, Table 3.1                |
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1      | Gr. 3: Not classifiable | International Agency for Research on Cancer             |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4     | Carc. 2                 | 3M classified according to Regulation (EC) No 1272/2008 |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8       | Carc. 2                 | 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             |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9      | Carc. 2                 | 3M classified according to Regulation (EC) No 1272/2008 |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9      | Gr. 3: Not classifiable | International Agency                                    |

Zeolites

1318-02-1

Gr. 3: Not classifiable

for Research on Cancer  
International Agency  
for Research on Cancer**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.

| <u>Ingredient</u>  | <u>CAS Nbr</u> |
|--|----------------|
| o-(p-isocyanatobenzyl)phenyl isocyanate                              | 5873-54-1      |
| Formaldehyde, oligomeric reaction products with aniline and phosgene | 32055-14-4     |
| 4,4'-methylenediphenyl diisocyanate                                  | 101-68-8       |
| Polymethylene polyphenylene isocyanate                               | 9016-87-9      |

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

**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**

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

**Revision information:**

EU Section 09: pH information information was added.

Section 2: &lt;125ml Precautionary - Prevention information was modified.

Section 2: &lt;125ml Precautionary - Response information was modified.

CLP: Ingredient table information was modified.

Label: CLP Classification information was modified.  
Label: CLP Precautionary - Prevention information was modified.  
Label: CLP Precautionary - Response information was modified.  
Label: CLP Target Organ Hazard Statement information was modified.  
Section 02: Regulation (EU) 2020/1149 Statement information was added.  
Section 03: Composition table % Column heading information was added.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 03: SCL table information was added.  
Section 03: Substance not applicable information was added.  
Section 04: First Aid - Symptoms and Effects (CLP) information was added.  
Section 04: Information on toxicological effects information was modified.  
Section 5: Hazardous combustion products table information was modified.  
Section 8: BLV table information was modified.  
Section 8: glove data value information was modified.  
Section 8: Occupational exposure limit table information was modified.  
Section 09: Color information was added.  
Section 9: Evaporation Rate information was deleted.  
Section 9: Explosive properties information information was deleted.  
Section 09: Kinematic Viscosity information information was added.  
Section 9: Melting point information information was modified.  
Section 09: Odor information was added.  
Sections 3 and 9: Odour, colour, grade information information was deleted.  
Section 9: Oxidising properties information information was deleted.  
Section 9: pH information information was deleted.  
Section 9: Property description for optional properties information was modified.  
Section 9: Vapour density value information was added.  
Section 9: Vapour density value information was deleted.  
Section 9: Viscosity information information was deleted.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Classification disclaimer information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: No endocrine disruptor information available warning information was added.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Respiratory Sensitization Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: 12.6. Endocrine Disrupting Properties information was added.  
Section 12: 12.7. Other adverse effects information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Contact manufacturer for more detail. information was deleted.  
Section 12: Mobility in soil information information was added.  
Section 12: No endocrine disruptor information available warning information was added.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 14 Classification Code – Main Heading information was added.  
Section 14 Classification Code – Regulation Data information was added.  
Section 14 Control Temperature – Main Heading information was added.  
Section 14 Control Temperature – Regulation Data information was added.  
Section 14 Disclaimer Information information was added.  
Section 14 Emergency Temperature – Main Heading information was added.  
Section 14 Emergency Temperature – Regulation Data information was added.  
Section 14 Hazard Class + Sub Risk – Main Heading information was added.

Section 14 Hazard Class + Sub Risk – Regulation Data information was added.  
Section 14 Hazardous/Not Hazardous for Transportation information was added.  
Section 14 Multiplier – Main Heading information was added.  
Section 14 Multiplier – Regulation Data information was added.  
Section 14 Other Dangerous Goods – Main Heading information was added.  
Section 14 Other Dangerous Goods – Regulation Data information was added.  
Section 14 Packing Group – Main Heading information was added.  
Section 14 Packing Group – Regulation Data information was added.  
Section 14 Proper Shipping Name information was added.  
Section 14 Regulations – Main Headings information was added.  
Section 14 Segregation – Regulation Data information was added.  
Section 14 Segregation Code – Main Heading information was added.  
Section 14 Special Precautions – Main Heading information was added.  
Section 14 Special Precautions – Regulation Data information was added.  
Section 14 Transport Category – Main Heading information was added.  
Section 14 Transport Category – Regulation Data information was added.  
Section 14 Transport in bulk – Regulation Data information was added.  
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.  
Section 14 Tunnel Code – Main Heading information was added.  
Section 14 Tunnel Code – Regulation Data information was added.  
Section 14 UN Number Column data information was added.  
Section 14 UN Number information was added.  
Section 14: Transportation classification information was deleted.  
Section 15: Carcinogenicity information information was modified.  
Section 15: Regulations - Inventories information was added.  
Section 15: Restrictions on manufacture ingredients information information was modified.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.  
information was modified.  
Section 16: UK disclaimer information was deleted.

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.

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## Safety Data Sheet

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|                        |            |                         |            |
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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 Adhesive EC-3549NF B/A Part B

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

##### Identified uses

Automotive.

#### 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:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended for Great Britain, on classification, labelling, and packaging of substances and mixtures.

#### 2.2. Label elements

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

Not applicable



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

No hazard statements are required for containers <=125 mL.

#### SUPPLEMENTAL INFORMATION:

##### Supplemental Hazard Statements:

EUH210 Safety data sheet available on request.

EUH208 Contains 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane. May produce an allergic reaction.

#### 2.3. Other hazards

None known.

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Ingredient                                    | Identifier(s)                              | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB |
|---|--|---------|--|
| Polyester resin                               | Trade Secret                               | 30 - 60 | Substance not classified as hazardous  |
| Propane-1,2-diol, propoxylated                | (CAS-No.) 25322-69-4                       | 10 - 30 | Acute Tox. 4, H302   |
| Talc  | (CAS-No.) 14807-96-6<br>(EC-No.) 238-877-9 | 10 - 30 | Substance with a national occupational exposure limit                              |
| 4,4'-Methylenebis[2,6-diethylaniline          | (CAS-No.) 13680-35-8<br>(EC-No.) 237-185-4 | < 1.2   | Aquatic Chronic 2, H411<br>Acute Tox. 4, H302                                      |
| Propylidynetrimethanol, propoxylated          | (CAS-No.) 25723-16-4<br>(EC-No.) 500-041-9 | 3 - 7   | Substance not classified as hazardous  |
| Zeolites                                      | (CAS-No.) 1318-02-1<br>(EC-No.) 215-283-8  | < 3     | Substance with a national occupational exposure limit                              |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | (CAS-No.) 3388-04-3<br>(EC-No.) 222-217-1  | < 1     | Aquatic Chronic 3, H412<br>Skin Sens. 1, H317                                      |

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

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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

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

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

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

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

| <u>Substance</u>           | <u>Condition</u>   |
|----------------------------|--------------------|
| Carbon monoxide            | During combustion. |
| Carbon dioxide.            | During combustion. |
| Irritant vapours or gases. | 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

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

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

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

Store away from oxidising agents.

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

| Ingredient       | CAS Nbr    | Agency | Limit type   | Additional comments |
|------------------|------------|--------|--|---------------------|
| Aluminium oxides | 1318-02-1  | UK HSC | TWA(as respirable dust):4 mg/m <sup>3</sup> ;TWA(as inhalable dust):10 mg/m <sup>3</sup> |                     |
| Talc             | 14807-96-6 | UK HSC | TWA(as respirable dust):1 mg/m <sup>3</sup>  |                     |

UK HSC : UK Health and Safety Commission

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.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

No engineering controls required.

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

##### Eye/face protection

None required.

##### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the

substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity. Gloves made from the following material(s) are recommended:

| 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

None required.

## SECTION 9: Physical and chemical properties

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

|  |  |
|--|--|
| Physical state                         | Liquid.  |
| Specific Physical Form:                | Paste  |
| Colour                                 | Off-White  |
| Odor                                   | Slight Odor, Mild Odor                             |
| Odour threshold                        | <i>No data available.</i>                          |
| Melting point/freezing point           | <i>Not applicable.</i>                             |
| Boiling point/boiling range            | $\geq 178.9$ °C                                    |
| Flammability (solid, gas)              | Not applicable.                                    |
| Flammable Limits(LEL)                  | <i>No data available.</i>                          |
| Flammable Limits(UEL)                  | <i>No data available.</i>                          |
| Flash point                            | $\geq 178.9$ °C [ <i>Test Method: Closed Cup</i> ] |
| Autoignition temperature               | <i>No data available.</i>                          |
| Decomposition temperature              | <i>No data available.</i>                          |
| pH                                     | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity                    | 19,084 mm <sup>2</sup> /sec                        |
| Water solubility                       | Negligible   |
| Solubility- non-water                  | <i>No data available.</i>                          |
| Partition coefficient: n-octanol/water | <i>No data available.</i>                          |
| Vapour pressure                        | <i>No data available.</i>                          |
| Density                                | 1.31 g/ml  |
| Relative density                       | 1.31 [ <i>Ref Std: WATER=1</i> ]                   |
| Relative Vapour Density                | <i>Not applicable.</i>                             |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

|                               |                           |
|-------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate              | <i>Not applicable.</i>    |
| Molecular weight              | <i>No data available.</i> |

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

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

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

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not 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 health effects are expected.

**Skin contact**

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 be harmful if swallowed.

**Toxicological Data**

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

**Acute Toxicity**

| Name            | Route     | Species | Value   |
|-----------------|-----------|---------|---|
| Overall product | Dermal    |         | No data available; calculated ATE >5,000 mg/kg          |
| Overall product | Ingestion |         | No data available; calculated ATE >2,000 - =5,000 mg/kg |

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

|   |                                |        |                                    |
|---|--------------------------------|--------|------------------------------------|
| Polyester resin                               | Ingestion                      | Rat    | LD50 > 15,000 mg/kg                |
| Propane-1,2-diol, propoxylated                | Dermal                         | Rabbit | LD50 > 10,000 mg/kg                |
| Propane-1,2-diol, propoxylated                | Ingestion                      | Rat    | LD50 > 1,000 mg/kg                 |
| Talc  | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg |
| Talc  | Ingestion                      |        | LD50 estimated to be > 5,000 mg/kg |
| Propylidynetrimethanol, propoxylated          | Dermal                         | Rat    | LD50 > 2,000 mg/kg                 |
| Propylidynetrimethanol, propoxylated          | Ingestion                      | Rat    | LD50 > 2,500 mg/kg                 |
| Zeolites                                      | Dermal                         | Rabbit | LD50 > 2,000 mg/kg                 |
| Zeolites                                      | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 4.57 mg/l                   |
| Zeolites                                      | Ingestion                      | Rat    | LD50 > 5,000 mg/kg                 |
| 4,4'-Methylenebis[2,6-diethylaniline          | Dermal                         | Rat    | LD50 > 2,000 mg/kg                 |
| 4,4'-Methylenebis[2,6-diethylaniline          | Ingestion                      | Rat    | LD50 1,736 mg/kg                   |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Dermal                         | Rabbit | LD50 6,700 mg/kg                   |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Inhalation-Vapour (4 hours)    | Rat    | LC50 > 7 mg/l                      |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Ingestion                      | Rat    | LD50 13,100 mg/kg                  |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species       | Value                     |
|---|---------------|---------------------------|
| Propane-1,2-diol, propoxylated                | Not available | No significant irritation |
| Talc  | Rabbit        | No significant irritation |
| Propylidynetrimethanol, propoxylated          | Rabbit        | No significant irritation |
| Zeolites                                      | Rabbit        | No significant irritation |
| 4,4'-Methylenebis[2,6-diethylaniline          | Rabbit        | No significant irritation |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Rabbit        | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name  | Species       | Value                     |
|---|---------------|---------------------------|
| Propane-1,2-diol, propoxylated                | Not available | Mild irritant             |
| Talc  | Rabbit        | No significant irritation |
| Propylidynetrimethanol, propoxylated          | Rabbit        | Mild irritant             |
| Zeolites                                      | Rabbit        | Mild irritant             |
| 4,4'-Methylenebis[2,6-diethylaniline          | In vitro data | No significant irritation |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Rabbit        | No significant irritation |

**Skin Sensitisation**

| Name  | Species           | Value          |
|---|-------------------|----------------|
| Propane-1,2-diol, propoxylated                | Human and animal  | Not classified |
| 4,4'-Methylenebis[2,6-diethylaniline          | Mouse             | Not classified |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | similar compounds | Sensitising    |

**Respiratory Sensitisation**

| Name | Species | Value          |
|------|---------|----------------|
| Talc | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name  | Route    | Value  |
|---|----------|--|
| Propane-1,2-diol, propoxylated                | In Vitro | Not mutagenic  |
| Talc  | In Vitro | Not mutagenic  |
| Talc  | In vivo  | Not mutagenic  |
| 4,4'-Methylenebis[2,6-diethylaniline          | In Vitro | Not mutagenic  |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name  | Route      | Species | Value  |
|---|------------|---------|--|
| Talc  | Inhalation | Rat     | Some positive data exist, but the data are not sufficient for classification |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Dermal     | Mouse   | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name  | Route     | Value                          | Species | Test result          | Exposure Duration    |
|---|-----------|--------------------------------|---------|----------------------|----------------------|
| Talc  | Ingestion | Not classified for development | Rat     | NOAEL 1,600 mg/kg    | during organogenesis |
| 4,4'-Methylenebis[2,6-diethylaniline          | Ingestion | Not classified for development | Rat     | NOAEL 15 mg/kg/day   | during gestation     |
| 2-(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane | Ingestion | Not classified for development | Rabbit  | NOAEL 0.27 mg/kg/day | 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     |
|--------------------------------------|------------|--|---|---------|----------------------------|-----------------------|
| Talc                                 | Inhalation | pneumoconiosis   | Repeated and prolonged exposure to large amounts of talc dust can cause lung injury | Human   | NOAEL Not available        | occupational exposure |
| Talc                                 | Inhalation | pulmonary fibrosis   respiratory system  | Not classified  | Rat     | NOAEL 18 mg/m <sup>3</sup> | 113 weeks             |
| 4,4'-Methylenebis[2,6-diethylaniline | Ingestion  | liver   heart   endocrine system   hematopoietic system   immune system   nervous system   kidney and/or bladder | Not classified  | Rat     | NOAEL 50 mg/kg/day         | 90 days               |

**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  |
|--------------------------------------|--------------|---------------------|---|----------|--------------------------------|--------------|
| Polyester resin                      | Trade Secret | N/A                 | Data not available or insufficient for classification | N/A      | N/A                            | N/A          |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Green algae         | Analogous Compound                                    | 72 hours | ErC50                          | >100 mg/l    |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Water flea          | Analogous Compound                                    | 48 hours | EC50                           | 105.8 mg/l   |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Zebra Fish          | Analogous Compound                                    | 96 hours | LC50                           | >100 mg/l    |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Green algae         | Analogous Compound                                    | 72 hours | NOEC                           | 100 mg/l     |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Water flea          | Analogous Compound                                    | 21 days  | NOEC                           | >=10 mg/l    |
| Propane-1,2-diol, propoxylated       | 25322-69-4   | Activated sludge    | Analogous Compound                                    | 3 hours  | EC50                           | >1,000 mg/l  |
| Talc                                 | 14807-96-6   | N/A                 | Data not available or insufficient for classification | N/A      | N/A                            | N/A          |
| 4,4'-Methylenebis[2,6-diethylaniline | 13680-35-8   | Green algae         | Endpoint not reached                                  | 72 hours | EC50                           | >100 mg/l    |
| 4,4'-Methylenebis[2,6-diethylaniline | 13680-35-8   | Activated sludge    | Experimental  | 3 hours  | NOEC                           | 1,000 mg/l   |
| 4,4'-Methylenebis[2,6-diethylaniline | 13680-35-8   | Water flea          | Experimental  | 48 hours | No tox obs at lmt of water sol | >100 mg/l    |
| 4,4'-Methylenebis[2,6-diethylaniline | 13680-35-8   | Zebra Fish          | Experimental  | 96 hours | LC50                           | 1.32 mg/l    |
| 4,4'-Methylenebis[2,6-diethylaniline | 13680-35-8   | Green algae         | Experimental  | 72 hours | NOEC                           | 0.19 mg/l    |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Activated sludge    | Experimental  | 3 hours  | EC10                           | >10,000 mg/l |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Green algae         | Experimental  | 72 hours | EC50                           | >100 mg/l    |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Water flea          | Experimental  | 48 hours | EC50                           | >100 mg/l    |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Zebra Fish          | Experimental  | 96 hours | LC50                           | >100 mg/l    |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Green algae         | Experimental  | 72 hours | NOEC                           | 100 mg/l     |
| Propylidynetrimethanol, propoxylated | 25723-16-4   | Water flea          | Experimental  | 21 days  | NOEC                           | 8.5 mg/l     |
| Zeolites                             | 1318-02-1    | African clawed frog | Analogous Compound                                    | 96 hours | LC50                           | 1,800 mg/l   |
| Zeolites                             | 1318-02-1    | Fathead minnow      | Analogous Compound                                    | 96 hours | LC50                           | >680 mg/l    |
| Zeolites                             | 1318-02-1    | Green algae         | Analogous Compound                                    | 72 hours | EC50                           | 130 mg/l     |
| Zeolites                             | 1318-02-1    | Sediment organism   | Analogous Compound                                    | 22 days  | EC50                           | 364.9 mg/l   |
| Zeolites                             | 1318-02-1    | Water flea          | Analogous Compound                                    | 48 hours | EC50                           | >100 mg/l    |



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

|   |           |                  |                    |            |      |                          |
|---|-----------|------------------|--------------------|------------|------|--------------------------|
| Zeolites                                      | 1318-02-1 | Fathead minnow   | Analogous Compound | 30 days    | NOEC | 86.7 mg/l                |
| Zeolites                                      | 1318-02-1 | Green algae      | Analogous Compound | 72 hours   | NOEC | 18 mg/l                  |
| Zeolites                                      | 1318-02-1 | Water flea       | Analogous Compound | 21 days    | NOEC | 32 mg/l                  |
| Zeolites                                      | 1318-02-1 | Bacteria         | Experimental       | 16 hours   | EC50 | 950 mg/l                 |
| Zeolites                                      | 1318-02-1 | Radish           | Experimental       | 23 days    | EC50 | 4,000 mg/kg (Dry Weight) |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3 | Activated sludge | Estimated          | 30 minutes | IC50 | >100 mg/l                |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3 | Green algae      | Estimated          | 72 hours   | EC50 | 280 mg/l                 |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3 | Rainbow trout    | Estimated          | 96 hours   | LC50 | 180 mg/l                 |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3 | Water flea       | Estimated          | 48 hours   | EC50 | 20 mg/l                  |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3 | Green algae      | Estimated          | 72 hours   | NOEC | 1 mg/l                   |

**12.2. Persistence and degradability**

| Material                                      | CAS Nbr      | Test type                       | Duration | Study Type           | Test result       | Protocol                            |
|---|--------------|---------------------------------|----------|----------------------|-------------------|-------------------------------------|
| Polyester resin                               | Trade Secret | Data not available/insufficient | N/A      | N/A                  | N/A               | N/A                                 |
| Propane-1,2-diol, propoxylated                | 25322-69-4   | Experimental Biodegradation     | 28 days  | BOD                  | 93.6 %BOD/ThOD    | OECD 301F - Manometric respirometry |
| Talc  | 14807-96-6   | Data not available/insufficient | N/A      | N/A                  | N/A               | N/A                                 |
| 4,4'-Methylenebis[2,6-diethylaniline]         | 13680-35-8   | Experimental Biodegradation     | 28 days  | BOD                  | 4.18 %BOD/ThOD    | OECD 301C - MITI test (I)           |
| Propylidynetrimethanol, propoxylated          | 25723-16-4   | Experimental Biodegradation     | 28 days  | BOD                  | 84 %BOD/ThOD      |                                     |
| Zeolites                                      | 1318-02-1    | Analogous Compound Hydrolysis   |          | Hydrolytic half-life | 60 days (t 1/2)   |                                     |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3    | Estimated Biodegradation        | 28 days  | BOD                  | 28 %BOD/ThOD      | OECD 301D - Closed bottle test      |
| 2-(3,4-Epoxy-cyclohexyl)ethyltrimethoxysilane | 3388-04-3    | Estimated Hydrolysis            |          | Hydrolytic half-life | 6.5 hours (t 1/2) |                                     |

**12.3 : Bioaccumulative potential**

| Material                       | Cas No.      | Test type   | Duration | Study Type | Test result | Protocol                     |
|--------------------------------|--------------|---|----------|------------|-------------|------------------------------|
| Polyester resin                | Trade Secret | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                          |
| Propane-1,2-diol, propoxylated | 25322-69-4   | Experimental Bioconcentration                         |          | Log Kow    | ≤1.13       | EC A.8 Partition Coefficient |
| Talc                           | 14807-96-6   | Data not available                                    | N/A      | N/A        | N/A         | N/A                          |

|  |            |   |     |                        |      |                              |
|--|------------|---|-----|------------------------|------|------------------------------|
|  |            | or insufficient for classification                    |     |                        |      |                              |
| 4,4'-Methylenebis[2,6-diethylaniline]        | 13680-35-8 | Modeled Bioconcentration                              |     | Bioaccumulation factor | 2300 | Catalogic™                   |
| 4,4'-Methylenebis[2,6-diethylaniline]        | 13680-35-8 | Experimental Bioconcentration                         |     | Log Kow                | 4.4  | EC A.8 Partition Coefficient |
| Propylidynetrimethanol, propoxylated         | 25723-16-4 | Experimental Bioconcentration                         |     | Log Kow                | 1.8  |                              |
| Zeolites                                     | 1318-02-1  | Data not available or insufficient for classification | N/A | N/A                    | N/A  | N/A                          |
| 2-(3,4-Epoxy)cyclohexylethyltrimethoxysilane | 3388-04-3  | Estimated Bioconcentration                            |     | Bioaccumulation factor | 2.3  |                              |

**12.4. Mobility in soil**

| Material                                     | Cas No.    | Test type                     | Study Type | Test result | Protocol                       |
|--|------------|-------------------------------|------------|-------------|--------------------------------|
| Propane-1,2-diol, propoxylated               | 25322-69-4 | Experimental Mobility in Soil | Koc        | <17.8 l/kg  | OECD 121 Estim. of Koc by HPLC |
| 4,4'-Methylenebis[2,6-diethylaniline]        | 13680-35-8 | Modeled Mobility in Soil      | Koc        | 9,200 l/kg  | ACD/Labs ChemSketch™           |
| Propylidynetrimethanol, propoxylated         | 25723-16-4 | Experimental Mobility in Soil | Koc        | <18 l/kg    | OECD 121 Estim. of Koc by HPLC |
| 2-(3,4-Epoxy)cyclohexylethyltrimethoxysilane | 3388-04-3  | Estimated Mobility in Soil    | Koc        | 20 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 10 Waste adhesives and sealants other than those mentioned in 08 04 09
- 20 01 28 Paint, inks, adhesives and resins other than those mentioned in 20 01 27

**SECTION 14: Transportation information**

Not hazardous for transportation.

ADR/IMDG/IATA: Not hazardous for transport

|  | <b>Ground Transport (ADR)</b>  | <b>Air Transport (IATA)</b>  | <b>Marine Transport (IMDG)</b>   |
|--|--|--|--|
| <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****Carcinogenicity****Ingredient****CAS Nbr****Classification****Regulation**

Zeolites

1318-02-1

Gr. 3: Not classifiable

International Agency  
for Research on Cancer

### Global inventory status

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

### 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

|      |  |
|------|--|
| H302 | Harmful if swallowed.                              |
| H317 | May cause an allergic skin reaction.               |
| H411 | Toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects. |

### Revision information:

GB Section 02: Other hazards phrase information was added.  
GB Section 04: Information on toxicological effects information was added.  
GB Section 12: Classification Warning information was added.  
GB Section 15: Carcinogenicity information information was added.  
GB Section 15: Chemical Safety Assessment information was added.  
GBSDS Section 14 Transport in bulk - Main Heading information was added.  
GBSDS Section 14 UN Number information was added.  
Section 02: CLP Classification Statements information was deleted.  
Contains statement for sensitizers information was added.  
Contains statement for sensitizers information was deleted.  
Section 02: GB Classification Statements information was added.  
Label: CLP <125ml Hazard - none information was deleted.  
Section 02: Label Elements: GBCLP <125ml Hazard - none information was added.  
List of sensitizers information was added.  
List of sensitizers information was deleted.  
Section 2: Other hazards phrase information was deleted.

Section 3: Composition/ Information of ingredients table information was added.  
Section 3: Composition/ Information of ingredients table information was deleted.  
Section 4: First aid for eye contact information information was modified.  
Section 04: Information on toxicological effects information was deleted.  
Section 8: Occupational exposure limit table information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Classification disclaimer information was deleted.  
Section 11: GB Classification disclaimer information was added.  
Section 11: GB No endocrine disruptor information available warning information was added.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
Section 11: Health Effects - Skin information information was modified.  
Section 11: No endocrine disruptor information available warning information was deleted.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Specific Target Organ Toxicity - single exposure text information was added.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was deleted.  
Section 12: 12.6. Endocrine Disrupting Properties information was deleted.  
Section 12: 12.6. Other adverse effects information was added.  
Section 12: 12.7. Other adverse effects information was deleted.  
Section 12: Classification Warning information was deleted.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Mobility in soil information information was modified.  
Prints No Data if Adverse effects information is not present information was deleted.  
Section 12: No endocrine disruptor information available warning information was added.  
Section 12: No endocrine disruptor information available warning information was deleted.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was deleted.  
Section 14 UN Number information was deleted.  
Section 15: Carcinogenicity information information was deleted.  
Section 15: Chemical Safety Assessment information was deleted.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was added.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was deleted.  
Section 16: Web address information was added.  
Section 16: Web address information was deleted.

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**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.