



## 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 by Regulation (EU) 2020/878

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B

#### Product Identification Numbers

62-2875-8531-9

7100314557

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

##### Identified uses

Product , Structural adhesive.

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

|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| <b>Address:</b>   | 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2 |
| <b>Telephone:</b> | +353 1 280 3555                                                   |
| <b>E Mail:</b>    | ner-productstewardship@mmm.com                                    |
| <b>Website:</b>   | www.3M.com                                                        |

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

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

##### CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226

Acute Toxicity, Category 4 - Acute Tox. 4; H312  
Skin Corrosion/ Irritation, Category 1A - Skin Corr. 1A; H314  
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335  
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

## 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### Symbols

GHS02 (Flame) |GHS05 (Corrosion) |GHS07 (Exclamation mark) |

#### Pictograms



#### Ingredients:

| Ingredient                                 | Identifier(s) | EC No.    | % by Wt  |
|--------------------------------------------|---------------|-----------|----------|
| methyl methacrylate                        | 80-62-6       | 201-297-1 | 9 - 30   |
| methacrylic acid                           | 79-41-4       | 201-204-4 | 0.1 - 23 |
| dodecyl methacrylate                       | 142-90-5      | 205-570-6 | < 11     |
| 2-hydroxyethyl methacrylate                | 868-77-9      | 212-782-2 | 0.1 - 10 |
| Phosphorus-containing methacrylate monomer | 1627542-04-4  |           | <= 5     |
| mequinol                                   | 150-76-5      | 205-769-8 | < 0.5    |
| 2,3-epoxypropyl methacrylate               | 106-91-2      | 203-441-9 | < 0.1    |

#### HAZARD STATEMENTS:

|      |                                                    |
|------|----------------------------------------------------|
| H226 | Flammable liquid and vapour.                       |
| H312 | Harmful in contact with skin.                      |
| H314 | Causes severe skin burns and eye damage.           |
| H317 | May cause an allergic skin reaction.               |
| H335 | May cause respiratory irritation.                  |
| H412 | Harmful to aquatic life with long lasting effects. |

#### PRECAUTIONARY STATEMENTS

##### Prevention:

|       |                                                                                                |
|-------|------------------------------------------------------------------------------------------------|
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260A | Do not breathe vapours.                                                                        |
| P280D | Wear protective gloves, protective clothing, and eye/face protection.                          |

##### Response:

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or |
|--------------------|------------------------------------------------------------------------------------------------|

P305 + P351 + P338 shower.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTRE or doctor/physician.

32% of the mixture consists of components of unknown acute oral toxicity.  
 32% of the mixture consists of components of unknown acute dermal toxicity.

Contains 42% of components with unknown hazards to the aquatic environment.

### 2.3. Other hazards

None known.

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Ingredient                                              | Identifier(s)                                                             | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                        |
|---------------------------------------------------------|---------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------|
| methyl methacrylate                                     | (CAS-No.) 80-62-6<br>(EC-No.) 201-297-1<br>(REACH-No.) 01-2119452498-28   | 9 - 30   | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Nota D                                           |
| Proprietary polymer                                     | Trade Secret                                                              | 14 - 27  | Substance not classified as hazardous                                                                                                  |
| methacrylic acid                                        | (CAS-No.) 79-41-4<br>(EC-No.) 201-204-4<br>(REACH-No.) 01-2119463884-26   | 0.1 - 23 | Acute Tox. 3, H311<br>Acute Tox. 4, H302<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Nota D<br>Acute Tox. 4, H332 |
| Mica-group minerals                                     | (CAS-No.) 12001-26-2                                                      | 0.1 - 20 | Substance not classified as hazardous                                                                                                  |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | (CAS-No.) 7534-94-3<br>(EC-No.) 231-403-1<br>(REACH-No.) 01-2119886505-27 | 0.1 - 20 | Aquatic Chronic 3, H412                                                                                                                |
| Acrylonitrile-Butadiene Polymers                        | (CAS-No.) 9003-18-3<br>(EC-No.) 618-357-1                                 | <= 15    | Substance not classified as hazardous                                                                                                  |
| dodecyl methacrylate                                    | (CAS-No.) 142-90-5<br>(EC-No.) 205-570-6                                  | < 11     | STOT SE 3, H335                                                                                                                        |
| Polyethylene                                            | (CAS-No.) 9002-88-4                                                       | <= 10    | Substance not classified as hazardous                                                                                                  |

|                                                                               |                                                                           |          |                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               | (EC-No.) 680-352-5                                                        |          |                                                                                                                                                                                                                  |
| 2-hydroxyethyl methacrylate                                                   | (CAS-No.) 868-77-9<br>(EC-No.) 212-782-2<br>(REACH-No.) 01-2119490169-29  | 0.1 - 10 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Nota D                                                                                                                                        |
| Fillers-II                                                                    | Trade Secret                                                              | <= 10    | Substance not classified as hazardous                                                                                                                                                                            |
| Phosphorus-containing methacrylate monomer                                    | (CAS-No.) 1627542-04-4                                                    | <= 5     | Eye Dam. 1, H318<br>Skin Sens. 1, H317                                                                                                                                                                           |
| MYRISTYL METHACRYLATE                                                         | (CAS-No.) 2549-53-3<br>(EC-No.) 219-835-9                                 | < 5      | Substance not classified as hazardous                                                                                                                                                                            |
| Acrylic copolymer                                                             | Trade Secret                                                              | <= 5     | Substance not classified as hazardous                                                                                                                                                                            |
| HEXADECYL METHACRYLATE                                                        | (CAS-No.) 2495-27-4<br>(EC-No.) 219-672-3                                 | <= 1.5   | Substance not classified as hazardous                                                                                                                                                                            |
| Carbon black                                                                  | (CAS-No.) 1333-86-4<br>(EC-No.) 215-609-9<br>(REACH-No.) 01-2119384822-32 | < 1      | Substance not classified as hazardous                                                                                                                                                                            |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | (CAS-No.) 26741-53-7<br>(EC-No.) 247-952-5                                | < 0.5    | Aquatic Chronic 1, H410,M=1                                                                                                                                                                                      |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | (CAS-No.) 68610-51-5<br>(EC-No.) 271-867-2                                | < 0.5    | Aquatic Chronic 4, H413<br>Repr. 2, H361d                                                                                                                                                                        |
| naphthenic acids, copper salts                                                | (CAS-No.) 1338-02-9<br>(EC-No.) 215-657-0                                 | < 0.5    | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Aquatic Acute 1, H400,M=10<br>Aquatic Chronic 1, H410,M=1                                                                                                            |
| mequinol                                                                      | (CAS-No.) 150-76-5<br>(EC-No.) 205-769-8                                  | < 0.5    | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                                                                                                                        |
| 2,3-epoxypropyl methacrylate                                                  | (CAS-No.) 106-91-2<br>(EC-No.) 203-441-9                                  | < 0.1    | Acute Tox. 3, H311<br>Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Muta. 2, H341<br>Carc. 1B, H350<br>Repr. 1B, H360F<br>STOT SE 3, H335<br>STOT RE 1, H372<br>Nota D<br>Skin Sens. 1A, H317 |
| 1,4-dihydroxybenzene                                                          | (CAS-No.) 123-31-9<br>(EC-No.) 204-617-8                                  | < 0.1    | Acute Tox. 4, H302<br>Eye Dam. 1, H318                                                                                                                                                                           |

|  |  |  |                                                                                                                    |
|--|--|--|--------------------------------------------------------------------------------------------------------------------|
|  |  |  | Skin Sens. 1B, H317<br>Muta. 2, H341<br>Carc. 2, H351<br>Aquatic Acute 1, H400,M=10<br>Aquatic Chronic 1, H410,M=1 |
|--|--|--|--------------------------------------------------------------------------------------------------------------------|

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.

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

### Specific Concentration Limits

| Ingredient           | Identifier(s)                                                           | Specific Concentration Limits                                                                      |
|----------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| dodecyl methacrylate | (CAS-No.) 142-90-5<br>(EC-No.) 205-570-6                                | (C >= 10%) STOT SE 3, H335                                                                         |
| methacrylic acid     | (CAS-No.) 79-41-4<br>(EC-No.) 201-204-4<br>(REACH-No.) 01-2119463884-26 | (C >= 10%) Skin Corr. 1A, H314<br>(1% <= C < 10%) Skin Irrit. 2, H315<br>(C >= 1%) 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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

Rinse mouth. Do not induce vomiting. Get immediate 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). Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Harmful in contact with skin. Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

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

### **Substance**

Carbon monoxide  
Carbon dioxide.  
Hydrogen Chloride  
Oxides of nitrogen.

### **Condition**

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

## **5.3. Advice for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

## **6.2. Environmental precautions**

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

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

Contain spill. Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer. This material contains a Synthetic Polymer Microparticle, ensure product is contained to minimize release, including preventing release via sewers.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. 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

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

### Biological limit values

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

### Derived no effect level (DNEL)

| Ingredient          | Degradation Product | Population | Human exposure pattern                                     | DNEL                   |
|---------------------|---------------------|------------|------------------------------------------------------------|------------------------|
| methyl methacrylate |                     | Worker     | Dermal, Long-term exposure (8 hours), Local effects        | 1.5 mg/cm <sup>2</sup> |
| methyl methacrylate |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 13.67 mg/kg bw/d       |
| methyl methacrylate |                     | Worker     | Dermal, Short-term exposure, Local effects                 | 1.5 mg/cm <sup>2</sup> |
| methyl methacrylate |                     | Worker     | Inhalation, Long-term exposure (8 hours), Local effects    | 208 mg/m <sup>3</sup>  |
| methyl methacrylate |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 208 mg/m <sup>3</sup>  |
| methyl methacrylate |                     | Worker     | Inhalation, Short-term exposure, Local effects             | 416 mg/m <sup>3</sup>  |

### Predicted no effect concentrations (PNEC)

| Ingredient          | Degradation Product | Compartment                    | PNEC            |
|---------------------|---------------------|--------------------------------|-----------------|
| methyl methacrylate |                     | Freshwater                     | 0.94 mg/l       |
| methyl methacrylate |                     | Freshwater sediments           | 5.74 mg/kg d.w. |
| methyl methacrylate |                     | Intermittent releases to water | 0.94 mg/l       |
| methyl methacrylate |                     | Marine Water                   | 0.94 mg/l       |

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

## 8.2. Exposure controls

### 8.2.1. Engineering controls

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

Full face shield.

Indirect vented goggles.

#### *Applicable Norms/Standards*

Use eye/face protection conforming to EN 16321

#### 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 (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

#### 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                                 | Black                                                 |
| Odor                                   | Strong Acrylic                                        |
| Odour threshold                        | <i>No data available.</i>                             |
| Melting point/freezing point           | <i>Not applicable.</i>                                |
| Boiling point/boiling range            | No boiling point                                      |
| Flammability                           | Flammable liquid: Category 3.                         |
| Flammable Limits(LEL)                  | <i>No data available.</i>                             |
| Flammable Limits(UEL)                  | <i>No data available.</i>                             |
| Flash point                            | $\geq 47.8^{\circ}\text{C}$ [Test Method: Closed Cup] |
| 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                    | 69,811 mm <sup>2</sup> /sec                           |
| Water solubility                       | Nil                                                   |
| 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                                | 1.066 g/ml                                            |
| Relative density                       | 1.066 [Ref Std: WATER=1]                              |
| Relative Vapour Density                | <i>No data available.</i>                             |
| Particle Characteristics               | <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>No data available.</i> |
| Molecular weight              | <i>Not applicable.</i>    |
| Percent volatile              | <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.  
Sparks and/or flames.

### 10.5 Incompatible materials

Amines.

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

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### Skin contact

Harmful in contact with skin. Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### Ingestion

May be harmful if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

#### Additional Health Effects:

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

Olfactory effects: Signs/symptoms may include decreased ability to detect odours and complete loss of smell.

#### 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 >1,000 - =2,000 mg/kg |
| Overall product | Inhalation- |         | No data available; calculated ATE >20 - =50 mg/l        |

**3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B**

|                                                                               |                                |                        |                                                         |
|-------------------------------------------------------------------------------|--------------------------------|------------------------|---------------------------------------------------------|
|                                                                               | Vapour(4 hr)                   |                        |                                                         |
| Overall product                                                               | Ingestion                      |                        | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| methyl methacrylate                                                           | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| methyl methacrylate                                                           | Inhalation-Vapour (4 hours)    | Rat                    | LC50 29.8 mg/l                                          |
| methyl methacrylate                                                           | Ingestion                      | Rat                    | LD50 7,900 mg/kg                                        |
| methacrylic acid                                                              | Dermal                         | Rabbit                 | LD50 > 500 mg/kg                                        |
| methacrylic acid                                                              | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 7.1 mg/l                                           |
| methacrylic acid                                                              | Ingestion                      | Rat                    | LD50 1,320 mg/kg                                        |
| Mica-group minerals                                                           | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                      |
| Mica-group minerals                                                           | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                                      |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion                      | Rat                    | LD50 3,100 mg/kg                                        |
| Acrylonitrile-Butadiene Polymers                                              | Dermal                         | Rabbit                 | LD50 > 15,000 mg/kg                                     |
| Acrylonitrile-Butadiene Polymers                                              | Ingestion                      | Rat                    | LD50 > 30,000 mg/kg                                     |
| dodecyl methacrylate                                                          | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| dodecyl methacrylate                                                          | Dermal                         | similar compounds      | LD50 > 3,000 mg/kg                                      |
| Fillers-II                                                                    | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| Fillers-II                                                                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                       |
| Fillers-II                                                                    | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                                      |
| 2-hydroxyethyl methacrylate                                                   | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| 2-hydroxyethyl methacrylate                                                   | Ingestion                      | Rat                    | LD50 5,564 mg/kg                                        |
| Polyethylene                                                                  | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg                      |
| Phosphorus-containing methacrylate monomer                                    | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                      |
| Polyethylene                                                                  | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                      |
| Phosphorus-containing methacrylate monomer                                    | Dermal                         | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| MYRISTYL METHACRYLATE                                                         | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                                      |
| MYRISTYL METHACRYLATE                                                         | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| HEXADECYL METHACRYLATE                                                        | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                                      |
| HEXADECYL METHACRYLATE                                                        | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| Carbon black                                                                  | Dermal                         | Rabbit                 | LD50 > 3,000 mg/kg                                      |
| Carbon black                                                                  | Ingestion                      | Rat                    | LD50 > 8,000 mg/kg                                      |
| naphthenic acids, copper salts                                                | Dermal                         | similar compounds      | LD50 > 2,000 mg/kg                                      |
| naphthenic acids, copper salts                                                | Ingestion                      | similar compounds      | LD50 >300, < 2,000 mg/kg                                |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                      |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| mequinol                                                                      | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| mequinol                                                                      | Ingestion                      | Rat                    | LD50 1,630 mg/kg                                        |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                      |
| 2,3-epoxypropyl methacrylate                                                  | Dermal                         | Rabbit                 | LD50 480 mg/kg                                          |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion                      | Rat                    | LD50 597 mg/kg                                          |
| 1,4-dihydroxybenzene                                                          | Dermal                         | Rat                    | LD50 > 4,800 mg/kg                                      |
| 1,4-dihydroxybenzene                                                          | Ingestion                      | Rat                    | LD50 302 mg/kg                                          |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                                                          | Species                | Value                     |
|-------------------------------------------------------------------------------|------------------------|---------------------------|
| methyl methacrylate                                                           | Rabbit                 | Irritant                  |
| methacrylic acid                                                              | Rabbit                 | Corrosive                 |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Rabbit                 | Mild irritant             |
| Acrylonitrile-Butadiene Polymers                                              | Professional judgement | No significant irritation |
| dodecyl methacrylate                                                          | similar compounds      | Minimal irritation        |
| Fillers-II                                                                    | Rabbit                 | No significant irritation |
| 2-hydroxyethyl methacrylate                                                   | Rabbit                 | Minimal irritation        |
| Phosphorus-containing methacrylate monomer                                    | Professional judgement | No significant irritation |
| Polyethylene                                                                  | Professional judgement | No significant irritation |
| MYRISTYL METHACRYLATE                                                         | Rabbit                 | Minimal irritation        |
| HEXADECYL METHACRYLATE                                                        | Rabbit                 | Minimal irritation        |
| Carbon black                                                                  | Rabbit                 | No significant irritation |
| naphthenic acids, copper salts                                                | Rabbit                 | No significant irritation |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Rabbit                 | No significant irritation |
| mequinol                                                                      | Rabbit                 | Mild irritant             |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Rabbit                 | No significant irritation |
| 2,3-epoxypropyl methacrylate                                                  | Rabbit                 | Corrosive                 |
| 1,4-dihydroxybenzene                                                          | Human and animal       | Minimal irritation        |

**Serious Eye Damage/Irritation**

| Name                                                                          | Species                | Value                     |
|-------------------------------------------------------------------------------|------------------------|---------------------------|
| methyl methacrylate                                                           | Rabbit                 | Mild irritant             |
| methacrylic acid                                                              | Rabbit                 | Corrosive                 |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Rabbit                 | Mild irritant             |
| Acrylonitrile-Butadiene Polymers                                              | Professional judgement | No significant irritation |
| dodecyl methacrylate                                                          | similar compounds      | No significant irritation |
| Fillers-II                                                                    | Rabbit                 | No significant irritation |
| 2-hydroxyethyl methacrylate                                                   | Rabbit                 | Moderate irritant         |
| Phosphorus-containing methacrylate monomer                                    | Professional judgement | Corrosive                 |
| MYRISTYL METHACRYLATE                                                         | Rabbit                 | No significant irritation |
| HEXADECYL METHACRYLATE                                                        | Rabbit                 | No significant irritation |
| Carbon black                                                                  | Rabbit                 | No significant irritation |
| naphthenic acids, copper salts                                                | In vitro data          | No significant irritation |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Rabbit                 | Mild irritant             |
| mequinol                                                                      | Rabbit                 | Severe irritant           |

|                                                                    |        |                           |
|--------------------------------------------------------------------|--------|---------------------------|
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE | Rabbit | No significant irritation |
| 2,3-epoxypropyl methacrylate                                       | Rabbit | Corrosive                 |
| 1,4-dihydroxybenzene                                               | Human  | Corrosive                 |

### Skin Sensitisation

| Name                                                                          | Species                | Value                                                                        |
|-------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------|
| methyl methacrylate                                                           | Human and animal       | Sensitising                                                                  |
| methacrylic acid                                                              | Guinea pig             | Not classified                                                               |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Guinea pig             | Not classified                                                               |
| dodecyl methacrylate                                                          | Guinea pig             | Not classified                                                               |
| Fillers-II                                                                    | Human and animal       | Not classified                                                               |
| 2-hydroxyethyl methacrylate                                                   | Human and animal       | Sensitising                                                                  |
| Phosphorus-containing methacrylate monomer                                    | Professional judgement | Sensitising                                                                  |
| MYRISTYL METHACRYLATE                                                         | Professional judgement | Some positive data exist, but the data are not sufficient for classification |
| HEXADECYL METHACRYLATE                                                        | Mouse                  | Some positive data exist, but the data are not sufficient for classification |
| naphthenic acids, copper salts                                                | Guinea pig             | Not classified                                                               |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Guinea pig             | Not classified                                                               |
| mequinol                                                                      | Guinea pig             | Sensitising                                                                  |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Guinea pig             | Not classified                                                               |
| 2,3-epoxypropyl methacrylate                                                  | Human and animal       | Sensitising                                                                  |
| 1,4-dihydroxybenzene                                                          | Guinea pig             | Sensitising                                                                  |

### Respiratory Sensitisation

| Name                | Species | Value          |
|---------------------|---------|----------------|
| methyl methacrylate | Human   | Not classified |

### Germ Cell Mutagenicity

| Name                                                    | Route    | Value                                                                        |
|---------------------------------------------------------|----------|------------------------------------------------------------------------------|
| methyl methacrylate                                     | In vivo  | Not mutagenic                                                                |
| methyl methacrylate                                     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| methacrylic acid                                        | In Vitro | Not mutagenic                                                                |
| methacrylic acid                                        | In vivo  | Not mutagenic                                                                |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | In Vitro | Not mutagenic                                                                |
| dodecyl methacrylate                                    | In Vitro | Not mutagenic                                                                |
| dodecyl methacrylate                                    | In vivo  | Not mutagenic                                                                |
| Fillers-II                                              | In Vitro | Not mutagenic                                                                |

|                                                                               |          |                                                                              |
|-------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| 2-hydroxyethyl methacrylate                                                   | In vivo  | Not mutagenic                                                                |
| 2-hydroxyethyl methacrylate                                                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Phosphorus-containing methacrylate monomer                                    | In Vitro | Not mutagenic                                                                |
| MYRISTYL METHACRYLATE                                                         | In Vitro | Not mutagenic                                                                |
| Carbon black                                                                  | In Vitro | Not mutagenic                                                                |
| Carbon black                                                                  | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | In Vitro | Not mutagenic                                                                |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | In vivo  | Not mutagenic                                                                |
| mequinol                                                                      | In vivo  | Not mutagenic                                                                |
| mequinol                                                                      | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | In Vitro | Not mutagenic                                                                |
| 2,3-epoxypropyl methacrylate                                                  | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,3-epoxypropyl methacrylate                                                  | In vivo  | Mutagenic                                                                    |
| 1,4-dihydroxybenzene                                                          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,4-dihydroxybenzene                                                          | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                         | Route          | Species                 | Value                                                                        |
|------------------------------|----------------|-------------------------|------------------------------------------------------------------------------|
| methyl methacrylate          | Ingestion      | Rat                     | Not carcinogenic                                                             |
| methyl methacrylate          | Inhalation     | Human and animal        | Not carcinogenic                                                             |
| Fillers-II                   | Not specified. | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Polyethylene                 | Not specified. | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Carbon black                 | Dermal         | Mouse                   | Not carcinogenic                                                             |
| Carbon black                 | Ingestion      | Mouse                   | Not carcinogenic                                                             |
| Carbon black                 | Inhalation     | Rat                     | Carcinogenic.                                                                |
| mequinol                     | Dermal         | Multiple animal species | Not carcinogenic                                                             |
| mequinol                     | Ingestion      | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| 2,3-epoxypropyl methacrylate | Ingestion      | similar compounds       | Carcinogenic.                                                                |
| 2,3-epoxypropyl methacrylate | Inhalation     | Multiple animal species | Carcinogenic.                                                                |
| 1,4-dihydroxybenzene         | Dermal         | Mouse                   | Not carcinogenic                                                             |
| 1,4-dihydroxybenzene         | Ingestion      | Multiple animal species | 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 |
|---------------------|-----------|----------------------------------------|---------|---------------------|-------------------|
| methyl methacrylate | Ingestion | Not classified for female reproduction | Rat     | NOAEL 400 mg/kg/day | 2 generation      |
| methyl methacrylate | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 400 mg/kg/day | 2 generation      |

|                                                                               |            |                                        |        |                           |                              |
|-------------------------------------------------------------------------------|------------|----------------------------------------|--------|---------------------------|------------------------------|
| methyl methacrylate                                                           | Ingestion  | Not classified for development         | Rabbit | NOAEL 450 mg/kg/day       | during gestation             |
| methyl methacrylate                                                           | Inhalation | Not classified for development         | Rat    | NOAEL 8.3 mg/l            | during organogenesis         |
| methacrylic acid                                                              | Inhalation | Not classified for development         | Rat    | NOAEL 1.076 mg/l          | during gestation             |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 500 mg/kg/day       | premating into lactation     |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 500 mg/kg/day       | 4 weeks                      |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion  | Not classified for development         | Rat    | NOAEL 500 mg/kg/day       | premating into lactation     |
| dodecyl methacrylate                                                          | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 1,000 mg/kg/day     | premating into lactation     |
| dodecyl methacrylate                                                          | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day     | 6 weeks                      |
| dodecyl methacrylate                                                          | Ingestion  | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day     | premating into lactation     |
| Fillers-II                                                                    | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day       | 1 generation                 |
| Fillers-II                                                                    | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day       | 1 generation                 |
| Fillers-II                                                                    | Ingestion  | Not classified for development         | Rat    | NOAEL 1,350 mg/kg/day     | during organogenesis         |
| 2-hydroxyethyl methacrylate                                                   | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 1,000 mg/kg/day     | premating & during gestation |
| 2-hydroxyethyl methacrylate                                                   | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day     | 49 days                      |
| 2-hydroxyethyl methacrylate                                                   | Ingestion  | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day     | premating & during gestation |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Ingestion  | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day     | during gestation             |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 500 ppm in the diet | 1 generation                 |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 500 ppm in the diet | 1 generation                 |
| mequinol                                                                      | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 300 mg/kg/day       | premating into lactation     |
| mequinol                                                                      | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 300 mg/kg/day       | 28 days                      |
| mequinol                                                                      | Ingestion  | Not classified for development         | Rat    | NOAEL 200 mg/kg/day       | during gestation             |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Ingestion  | Not classified for development         | Rabbit | NOAEL 15 mg/kg/day        | during gestation             |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion  | Not classified for development         | Rat    | NOAEL 100 mg/kg/day       | premating into lactation     |
| 2,3-epoxypropyl methacrylate                                                  | Inhalation | Not classified for development         | Rabbit | NOAEL 0.058 mg/l          | during gestation             |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 30 mg/kg/day        | premating into lactation     |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion  | Toxic to male reproduction             | Rat    | NOAEL 30 mg/kg/day        | 45 days                      |
| 1,4-dihydroxybenzene                                                          | Ingestion  | Not classified for female reproduction | Rat    | NOAEL 150 mg/kg/day       | 2 generation                 |
| 1,4-dihydroxybenzene                                                          | Ingestion  | Not classified for male reproduction   | Rat    | NOAEL 150 mg/kg/day       | 2 generation                 |

|                      |           |                                |     |                     |                      |
|----------------------|-----------|--------------------------------|-----|---------------------|----------------------|
| 1,4-dihydroxybenzene | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | during organogenesis |
|----------------------|-----------|--------------------------------|-----|---------------------|----------------------|

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

| Name                                                    | Route      | Target Organ(s)        | Value                                                                        | Species                | Test result         | Exposure Duration     |
|---------------------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-----------------------|
| methyl methacrylate                                     | Inhalation | respiratory irritation | May cause respiratory irritation                                             | Human                  | NOAEL Not available | occupational exposure |
| methacrylic acid                                        | Inhalation | respiratory irritation | May cause respiratory irritation                                             | Rat                    | NOAEL Not available |                       |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| dodecyl methacrylate                                    | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL Not available |                       |
| Phosphorus-containing methacrylate monomer              | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| MYRISTYL METHACRYLATE                                   | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL not available |                       |
| mequinol                                                | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| 2,3-epoxypropyl methacrylate                            | Inhalation | respiratory irritation | May cause respiratory irritation                                             | similar health hazards | NOAEL not available |                       |
| 1,4-dihydroxybenzene                                    | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| 1,4-dihydroxybenzene                                    | Ingestion  | nervous system         | May cause damage to organs                                                   | Rat                    | NOAEL Not available | not applicable        |
| 1,4-dihydroxybenzene                                    | Ingestion  | kidney and/or bladder  | Not classified                                                               | Rat                    | NOAEL 400 mg/kg     | not applicable        |

**Specific Target Organ Toxicity - repeated exposure**

| Name                | Route      | Target Organ(s)                                                                                                                                                 | Value                                                          | Species                 | Test result          | Exposure Duration     |
|---------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------|----------------------|-----------------------|
| methyl methacrylate | Dermal     | peripheral nervous system                                                                                                                                       | Not classified                                                 | Human                   | NOAEL Not available  | occupational exposure |
| methyl methacrylate | Inhalation | olfactory system                                                                                                                                                | Causes damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available  | occupational exposure |
| methyl methacrylate | Inhalation | kidney and/or bladder                                                                                                                                           | Not classified                                                 | Multiple animal species | NOAEL Not available  | 14 weeks              |
| methyl methacrylate | Inhalation | liver                                                                                                                                                           | Not classified                                                 | Mouse                   | NOAEL 12.3 mg/l      | 14 weeks              |
| methyl methacrylate | Inhalation | respiratory system                                                                                                                                              | Not classified                                                 | Human                   | NOAEL Not available  | occupational exposure |
| methyl methacrylate | Ingestion  | kidney and/or bladder   heart   skin   endocrine system   gastrointestinal tract   hematopoietic system   liver   muscles   nervous system   respiratory system | Not classified                                                 | Rat                     | NOAEL 90.3 mg/kg/day | 2 years               |
| methacrylic acid    | Inhalation | respiratory system                                                                                                                                              | Not classified                                                 | Rat                     | NOAEL 0.352 mg/l     | 90 days               |
| methacrylic acid    | Inhalation | blood   nervous                                                                                                                                                 | Not classified                                                 | Rat                     | NOAEL                | 90 days               |

|                                                                               |            |                                                                                                                                                                                                          |                                                                              |        |                       |                       |
|-------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------|-----------------------|-----------------------|
|                                                                               |            | system   eyes   kidney and/or bladder                                                                                                                                                                    |                                                                              |        | 1.232 mg/l            |                       |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion  | liver                                                                                                                                                                                                    | Some positive data exist, but the data are not sufficient for classification | Rat    | NOAEL 150 mg/kg/day   | 90 days               |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | Ingestion  | endocrine system   hematopoietic system   kidney and/or bladder                                                                                                                                          | Not classified                                                               | Rat    | NOAEL 500 mg/kg/day   | 90 days               |
| Mica-group minerals                                                           | Inhalation | pneumoconiosis                                                                                                                                                                                           | Causes damage to organs through prolonged or repeated exposure               | Human  | NOAEL Not available   | occupational exposure |
| dodecyl methacrylate                                                          | Ingestion  | hematopoietic system   liver   kidney and/or bladder                                                                                                                                                     | Not classified                                                               | Rat    | NOAEL 1,000 mg/kg/day | 6 weeks               |
| Fillers-II                                                                    | Inhalation | respiratory system   silicosis                                                                                                                                                                           | Not classified                                                               | Human  | NOAEL Not available   | occupational exposure |
| Carbon black                                                                  | Inhalation | pneumoconiosis                                                                                                                                                                                           | Not classified                                                               | Human  | NOAEL Not available   | occupational exposure |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | Ingestion  | hematopoietic system   heart   skin   endocrine system   gastrointestinal tract   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified                                                               | Rat    | NOAEL 78 mg/kg/day    | 90 days               |
| mequinol                                                                      | Ingestion  | gastrointestinal tract                                                                                                                                                                                   | Not classified                                                               | Rat    | LOAEL 300 mg/kg/day   | 28 days               |
| mequinol                                                                      | Ingestion  | liver   immune system                                                                                                                                                                                    | Not classified                                                               | Rat    | NOAEL 300 mg/kg/day   | 28 days               |
| mequinol                                                                      | Ingestion  | kidney and/or bladder                                                                                                                                                                                    | Not classified                                                               | Rat    | LOAEL 300 mg/kg/day   | 28 days               |
| mequinol                                                                      | Ingestion  | heart   endocrine system   hematopoietic system   nervous system   respiratory system                                                                                                                    | Not classified                                                               | Rat    | NOAEL 300 mg/kg/day   | 28 days               |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | Ingestion  | endocrine system   blood   liver   eyes                                                                                                                                                                  | Not classified                                                               | Rat    | NOAEL 289 mg/kg/day   | 90 days               |
| 2,3-epoxypropyl methacrylate                                                  | Inhalation | respiratory system                                                                                                                                                                                       | Causes damage to organs through prolonged or repeated exposure               | Rabbit | NOAEL 0.012 mg/l      | 13 days               |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion  | endocrine system   kidney and/or bladder                                                                                                                                                                 | Not classified                                                               | Rat    | NOAEL 100 mg/kg/day   | 45 days               |
| 2,3-epoxypropyl methacrylate                                                  | Ingestion  | gastrointestinal tract                                                                                                                                                                                   | Not classified                                                               | Rat    | NOAEL 10 mg/kg/day    | 45 days               |
| 1,4-dihydroxybenzene                                                          | Ingestion  | blood                                                                                                                                                                                                    | Not classified                                                               | Rat    | NOAEL Not available   | 40 days               |
| 1,4-dihydroxybenzene                                                          | Ingestion  | bone marrow   liver                                                                                                                                                                                      | Not classified                                                               | Rat    | NOAEL Not available   | 9 weeks               |
| 1,4-dihydroxybenzene                                                          | Ingestion  | kidney and/or bladder                                                                                                                                                                                    | Not classified                                                               | Rat    | LOAEL 50 mg/kg/day    | 15 months             |
| 1,4-dihydroxybenzene                                                          | Ocular     | eyes                                                                                                                                                                                                     | Not classified                                                               | Human  | NOAEL Not available   | occupational exposure |

### 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                                                | Identifier(s) | Organism         | Type                                                  | Exposure   | Test endpoint | Test result               |
|---------------------------------------------------------|---------------|------------------|-------------------------------------------------------|------------|---------------|---------------------------|
| methyl methacrylate                                     | 80-62-6       | Green algae      | Experimental                                          | 72 hours   | EC50          | >110 mg/l                 |
| methyl methacrylate                                     | 80-62-6       | Rainbow trout    | Experimental                                          | 96 hours   | LC50          | >79 mg/l                  |
| methyl methacrylate                                     | 80-62-6       | Water flea       | Experimental                                          | 48 hours   | EC50          | 69 mg/l                   |
| methyl methacrylate                                     | 80-62-6       | Green algae      | Experimental                                          | 72 hours   | NOEC          | 110 mg/l                  |
| methyl methacrylate                                     | 80-62-6       | Water flea       | Experimental                                          | 21 days    | NOEC          | 37 mg/l                   |
| methyl methacrylate                                     | 80-62-6       | Activated sludge | Experimental                                          | 30 minutes | EC20          | 150 mg/l                  |
| methyl methacrylate                                     | 80-62-6       | Soil microbes    | Experimental                                          | 28 days    | NOEC          | >1,000 mg/kg (Dry Weight) |
| methacrylic acid                                        | 79-41-4       | Bacteria         | Experimental                                          | 17 hours   | EC50          | 270 mg/l                  |
| methacrylic acid                                        | 79-41-4       | Green algae      | Experimental                                          | 72 hours   | EC50          | 45 mg/l                   |
| methacrylic acid                                        | 79-41-4       | Water flea       | Experimental                                          | 48 hours   | EC50          | >130 mg/l                 |
| methacrylic acid                                        | 79-41-4       | Green algae      | Experimental                                          | 72 hours   | NOEC          | 8.2 mg/l                  |
| methacrylic acid                                        | 79-41-4       | Water flea       | Experimental                                          | 21 days    | NOEC          | 53 mg/l                   |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 7534-94-3     | Green algae      | Experimental                                          | 72 hours   | EC50          | 2.3 mg/l                  |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 7534-94-3     | Water flea       | Experimental                                          | 48 hours   | EC50          | 1.1 mg/l                  |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 7534-94-3     | Zebra Fish       | Experimental                                          | 96 hours   | LC50          | 1.8 mg/l                  |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 7534-94-3     | Green algae      | Experimental                                          | 72 hours   | EC10          | 0.751 mg/l                |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate | 7534-94-3     | Water flea       | Experimental                                          | 21 days    | NOEC          | 0.233 mg/l                |
| Mica-group minerals                                     | 12001-26-2    | N/A              | Data not available or insufficient for classification | N/A        | N/A           | N/A                       |
| Acrylonitrile-Butadiene Polymers                        | 9003-18-3     | N/A              | Data not available or insufficient for classification | N/A        | N/A           | N/A                       |

**3M™ Scotch-Weld™ Acrylic Adhesive 8910NS, Black Part B**

|                                            |              |                  |                                                       |          |                                |                             |
|--------------------------------------------|--------------|------------------|-------------------------------------------------------|----------|--------------------------------|-----------------------------|
| dodecyl methacrylate                       | 142-90-5     | Zebra Fish       | Analogous Compound                                    | 96 hours | No tox obs at lmt of water sol | >100                        |
| dodecyl methacrylate                       | 142-90-5     | Green algae      | Experimental                                          | 72 hours | No tox obs at lmt of water sol | >100                        |
| dodecyl methacrylate                       | 142-90-5     | Green algae      | Experimental                                          | 72 hours | No tox obs at lmt of water sol | >100                        |
| dodecyl methacrylate                       | 142-90-5     | Water flea       | Experimental                                          | 21 days  | No tox obs at lmt of water sol | >100                        |
| dodecyl methacrylate                       | 142-90-5     | Activated sludge | Analogous Compound                                    | 3 hours  | EC50                           | >10,000                     |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Turbot           | Analogous Compound                                    | 96 hours | LC50                           | 833 mg/l                    |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Fathead minnow   | Experimental                                          | 96 hours | LC50                           | 227 mg/l                    |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Green algae      | Experimental                                          | 72 hours | EC50                           | 710 mg/l                    |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Water flea       | Experimental                                          | 48 hours | EC50                           | 380 mg/l                    |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Green algae      | Experimental                                          | 72 hours | NOEC                           | 160 mg/l                    |
| 2-hydroxyethyl methacrylate                | 868-77-9     | Water flea       | Experimental                                          | 21 days  | NOEC                           | 24.1 mg/l                   |
| 2-hydroxyethyl methacrylate                | 868-77-9     | N/A              | Experimental                                          | 16 hours | EC0                            | >3,000 mg/l                 |
| 2-hydroxyethyl methacrylate                | 868-77-9     | N/A              | Experimental                                          | 18 hours | LD50                           | <98 mg per kg of bodyweight |
| Fillers-II                                 | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | N/A                         |
| Polyethylene                               | 9002-88-4    | N/A              | Data not available or insufficient for classification | N/A      | N/A                            | N/A                         |
| MYRISTYL METHACRYLATE                      | 2549-53-3    | Activated sludge | Estimated                                             | 3 hours  | EC50                           | >10,000 mg/l                |
| MYRISTYL METHACRYLATE                      | 2549-53-3    | Green algae      | Estimated                                             | 72 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| MYRISTYL METHACRYLATE                      | 2549-53-3    | Zebra Fish       | Estimated                                             | 96 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| MYRISTYL METHACRYLATE                      | 2549-53-3    | Green algae      | Estimated                                             | 72 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| MYRISTYL METHACRYLATE                      | 2549-53-3    | Water flea       | Estimated                                             | 21 days  | No tox obs at lmt of water sol | >100 mg/l                   |
| Phosphorus-containing methacrylate monomer | 1627542-04-4 | Common Carp      | Experimental                                          | 96 hours | LC50                           | >100 mg/l                   |
| Phosphorus-containing methacrylate monomer | 1627542-04-4 | Green algae      | Experimental                                          | 72 hours | EC50                           | 90 mg/l                     |
| Phosphorus-containing methacrylate monomer | 1627542-04-4 | Water flea       | Experimental                                          | 48 hours | EC50                           | >100 mg/l                   |
| HEXADECYL METHACRYLATE                     | 2495-27-4    | Activated sludge | Estimated                                             | 3 hours  | EC10                           | >10,000 mg/l                |
| HEXADECYL METHACRYLATE                     | 2495-27-4    | Green algae      | Estimated                                             | 72 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| HEXADECYL METHACRYLATE                     | 2495-27-4    | Zebra Fish       | Estimated                                             | 96 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| HEXADECYL METHACRYLATE                     | 2495-27-4    | Green algae      | Estimated                                             | 72 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| HEXADECYL METHACRYLATE                     | 2495-27-4    | Water flea       | Estimated                                             | 21 days  | No tox obs at lmt of water sol | >100 mg/l                   |
| Carbon black                               | 1333-86-4    | Green algae      | Experimental                                          | 72 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| Carbon black                               | 1333-86-4    | Zebra Fish       | Experimental                                          | 96 hours | No tox obs at lmt of water sol | >100 mg/l                   |
| Carbon black                               | 1333-86-4    | Green algae      | Experimental                                          | 72 hours | No tox obs at lmt of water sol | 100 mg/l                    |
| Carbon black                               | 1333-86-4    | Activated sludge | Experimental                                          | 3 hours  | NOEC                           | >800 mg/l                   |

|                                                                                    |            |                   |              |          |       |                        |
|------------------------------------------------------------------------------------|------------|-------------------|--------------|----------|-------|------------------------|
| mequinol                                                                           | 150-76-5   | Ciliated protozoa | Experimental | 40 hours | IC50  | 171.4 mg/l             |
| mequinol                                                                           | 150-76-5   | Green algae       | Experimental | 72 hours | ErC50 | 54.7 mg/l              |
| mequinol                                                                           | 150-76-5   | Rainbow trout     | Experimental | 96 hours | LC50  | 28.5 mg/l              |
| mequinol                                                                           | 150-76-5   | Water flea        | Experimental | 48 hours | EC50  | 2.2 mg/l               |
| mequinol                                                                           | 150-76-5   | Green algae       | Experimental | 72 hours | NOEC  | 2.96 mg/l              |
| mequinol                                                                           | 150-76-5   | Water flea        | Experimental | 21 days  | NOEC  | 0.68 mg/l              |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Green algae       | Estimated    | 72 hours | ErC50 | 0.629 mg/l             |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Water flea        | Estimated    | 48 hours | EC50  | 0.0756 mg/l            |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Zebra Fish        | Estimated    | 96 hours | LC50  | 0.07 mg/l              |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Fathead minnow    | Estimated    | 32 days  | EC10  | 0.0354 mg/l            |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Green algae       | Estimated    | N/A      | NOEC  | 0.132 mg/l             |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Sediment Worm     | Estimated    | 28 days  | NOEC  | 110 mg/kg (Dry Weight) |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Water flea        | Estimated    | 7 days   | NOEC  | 0.02 mg/l              |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Activated sludge  | Estimated    | N/A      | EC50  | 42 mg/l                |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Barley            | Estimated    | 4 days   | NOEC  | 96 mg/kg (Dry Weight)  |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Redworm           | Estimated    | 56 days  | NOEC  | 60 mg/kg (Dry Weight)  |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Soil microbes     | Estimated    | 4 days   | NOEC  | 72 mg/kg (Dry Weight)  |
| naphthenic acids,<br>copper salts                                                  | 1338-02-9  | Springtail        | Estimated    | 28 days  | NOEC  | 167 mg/kg (Dry Weight) |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE | 68610-51-5 | Bacteria          | Experimental | 17 hours | NOEC  | 150.9 mg/l             |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE | 68610-51-5 | Green algae       | Experimental | 72 hours | EC50  | >100 mg/l              |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE | 68610-51-5 | Rainbow trout     | Experimental | 96 hours | LC50  | >100 mg/l              |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE | 68610-51-5 | Water flea        | Experimental | 48 hours | EC50  | >100 mg/l              |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE | 68610-51-5 | Fathead minnow    | Experimental | 34 days  | NOEL  | 100 mg/l               |
| P-CRESOL,<br>REACTION                                                              | 68610-51-5 | Green algae       | Experimental | 72 hours | NOEC  | 100 mg/l               |

|                                                                                                    |            |                  |              |          |       |                              |
|----------------------------------------------------------------------------------------------------|------------|------------------|--------------|----------|-------|------------------------------|
| PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE                                          |            |                  |              |          |       |                              |
| P-CRESOL,<br>REACTION<br>PRODUCTS WITH<br>DICYCLOPENTADIE<br>NE AND<br>ISOBUTYLENE                 | 68610-51-5 | Water flea       | Experimental | 21 days  | EC10  | <1 mg/l                      |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Green algae      | Experimental | 72 hours | ErC50 | 97 mg/l                      |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Zebra Fish       | Experimental | 96 hours | LC50  | 70.7 mg/l                    |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Green algae      | Experimental | 72 hours | ErC10 | 15.4 mg/l                    |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Water flea       | Experimental | 21 days  | NOEC  | 0.1 mg/l                     |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Activated sludge | Experimental | 3 hours  | EC50  | >1,000 mg/l                  |
| PHOSPHOROUS<br>ACID, CYCLIC<br>NEOPENTANETETR<br>AYL BIS(2,4-DI-<br>TERT-<br>BUTYLPHENYL)<br>ESTER | 26741-53-7 | Redworm          | Experimental | 14 days  | LC50  | >1,000 mg/kg (Dry<br>Weight) |
| 2,3-epoxypropyl<br>methacrylate                                                                    | 106-91-2   | Green algae      | Experimental | 72 hours | EC50  | 9.2 mg/l                     |
| 2,3-epoxypropyl<br>methacrylate                                                                    | 106-91-2   | Medaka           | Experimental | 96 hours | LC50  | 2.8 mg/l                     |
| 2,3-epoxypropyl<br>methacrylate                                                                    | 106-91-2   | Water flea       | Experimental | 48 hours | EC50  | 24.9 mg/l                    |
| 2,3-epoxypropyl<br>methacrylate                                                                    | 106-91-2   | Green algae      | Experimental | 72 hours | NOEC  | 2.4 mg/l                     |
| 2,3-epoxypropyl<br>methacrylate                                                                    | 106-91-2   | Water flea       | Experimental | 21 days  | NOEC  | 1.02 mg/l                    |
| 1,4-dihydroxybenzene                                                                               | 123-31-9   | Activated sludge | Experimental | 2 hours  | IC50  | 71 mg/l                      |
| 1,4-dihydroxybenzene                                                                               | 123-31-9   | Green algae      | Experimental | 72 hours | ErC50 | 0.053 mg/l                   |
| 1,4-dihydroxybenzene                                                                               | 123-31-9   | Rainbow trout    | Experimental | 96 hours | LC50  | 0.044 mg/l                   |

|                      |          |                |              |          |      |              |
|----------------------|----------|----------------|--------------|----------|------|--------------|
| 1,4-dihydroxybenzene | 123-31-9 | Water flea     | Experimental | 48 hours | EC50 | 0.061 mg/l   |
| 1,4-dihydroxybenzene | 123-31-9 | Fathead minnow | Experimental | 32 days  | NOEC | >=0.066 mg/l |
| 1,4-dihydroxybenzene | 123-31-9 | Green algae    | Experimental | 72 hours | NOEC | 0.0015 mg/l  |
| 1,4-dihydroxybenzene | 123-31-9 | Water flea     | Experimental | 21 days  | NOEC | 0.0029 mg/l  |

## 12.2. Persistence and degradability

| Material                                                                      | Identifier(s) | Test type                               | Duration | Study Type                    | Test result                       | Protocol                           |
|-------------------------------------------------------------------------------|---------------|-----------------------------------------|----------|-------------------------------|-----------------------------------|------------------------------------|
| methyl methacrylate                                                           | 80-62-6       | Experimental Biodegradation             | 14 days  | BOD                           | 94 %BOD/ThOD                      | OECD 301C - MITI test (I)          |
| methacrylic acid                                                              | 79-41-4       | Experimental Biodegradation             | 28 days  | BOD                           | 86 %BOD/ThOD                      | OECD 301D - Closed bottle test     |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | 7534-94-3     | Experimental Biodegradation             | 28 days  | CO2 evolution                 | 70 %CO2 evolution/THCO2 evolution | OECD 310 CO2 Headspace             |
| Mica-group minerals                                                           | 12001-26-2    | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| Acrylonitrile-Butadiene Polymers                                              | 9003-18-3     | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| dodecyl methacrylate                                                          | 142-90-5      | Experimental Biodegradation             | 28 days  | BOD                           | 88.5 %BOD/ThOD                    | OECD 301C - MITI test (I)          |
| 2-hydroxyethyl methacrylate                                                   | 868-77-9      | Experimental Biodegradation             | 28 days  | BOD                           | 84 %BOD/CO D                      | OECD 301D - Closed bottle test     |
| 2-hydroxyethyl methacrylate                                                   | 868-77-9      | Experimental Hydrolysis                 |          | Hydrolytic half-life basic pH | 10.9 days (t 1/2)                 | OECD 111 Hydrolysis function of pH |
| Fillers-II                                                                    | Trade Secret  | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| Polyethylene                                                                  | 9002-88-4     | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| MYRISTYL METHACRYLATE                                                         | 2549-53-3     | Estimated Biodegradation                | 28 days  | BOD                           | 88.5 %BOD/ThOD                    |                                    |
| Phosphorus-containing methacrylate monomer                                    | 1627542-04-4  | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| HEXADECYL METHACRYLATE                                                        | 2495-27-4     | Estimated Biodegradation                | 28 days  | BOD                           | 87 %BOD/ThOD                      | OECD 301C - MITI test (I)          |
| Carbon black                                                                  | 1333-86-4     | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| mequinol                                                                      | 150-76-5      | Experimental Biodegradation - Anaerobic | 28 days  | Percent degraded              | >90 %degraded                     |                                    |
| mequinol                                                                      | 150-76-5      | Experimental Biodegradation             | 28 days  | BOD                           | 86 %BOD/ThOD                      | OECD 301C - MITI test (I)          |
| naphthenic acids, copper salts                                                | 1338-02-9     | Data not available - insufficient       | N/A      | N/A                           | N/A                               | N/A                                |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | 68610-51-5    | Experimental Biodegradation             | 28 days  | CO2 evolution                 | 1 % weight                        | OECD 301B - Modified Sturm or CO2  |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | 26741-53-7    | Experimental Biodegradation             | 28 days  | CO2 evolution                 | 0 %CO2 evolution/THCO2 evolution  | OECD 301B - Modified Sturm or CO2  |
| 2,3-epoxypropyl methacrylate                                                  | 106-91-2      | Experimental Biodegradation             | 28 days  | BOD                           | 94 %BOD/ThOD                      | OECD 301C - MITI test (I)          |
| 2,3-epoxypropyl methacrylate                                                  | 106-91-2      | Experimental Hydrolysis                 |          | Hydrolytic half-life (pH 7)   | 3.66 days (t 1/2)                 | OECD 111 Hydrolysis function of pH |
| 1,4-dihydroxybenzene                                                          | 123-31-9      | Experimental Biodegradation             | 14 days  | BOD                           | 70 %BOD/ThOD                      | OECD 301C - MITI test (I)          |

## 12.3 : Bioaccumulative potential

| Material                                                                      | Identifier(s) | Test type                                             | Duration | Study Type             | Test result | Protocol                        |
|-------------------------------------------------------------------------------|---------------|-------------------------------------------------------|----------|------------------------|-------------|---------------------------------|
| methyl methacrylate                                                           | 80-62-6       | Experimental Bioconcentration                         |          | Log Kow                | 1.38        | OECD 107 log Kow shke flask mtd |
| methacrylic acid                                                              | 79-41-4       | Experimental Bioconcentration                         |          | Log Kow                | 0.93        |                                 |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | 7534-94-3     | Modeled Bioconcentration                              |          | Bioaccumulation factor | 39          | Catalogic™                      |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate                       | 7534-94-3     | Experimental Bioconcentration                         |          | Log Kow                | 5.09        | OECD 117 log Kow HPLC method    |
| Mica-group minerals                                                           | 12001-26-2    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| Acrylonitrile-Butadiene Polymers                                              | 9003-18-3     | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| dodecyl methacrylate                                                          | 142-90-5      | Analogous Compound BCF - Other                        | 56 hours | Bioaccumulation factor | 37          | OECD305-Bioconcentration        |
| dodecyl methacrylate                                                          | 142-90-5      | Analogous Compound Bioconcentration                   |          | Log Kow                | 7.08        | OECD 117 log Kow HPLC method    |
| 2-hydroxyethyl methacrylate                                                   | 868-77-9      | Experimental Bioconcentration                         |          | Log Kow                | 0.42        | OECD 107 log Kow shke flask mtd |
| Fillers-II                                                                    | Trade Secret  | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| Polyethylene                                                                  | 9002-88-4     | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| MYRISTYL METHACRYLATE                                                         | 2549-53-3     | Estimated BCF - Other                                 | 56 hours | Bioaccumulation factor | 37          | OECD305-Bioconcentration        |
| Phosphorus-containing methacrylate monomer                                    | 1627542-04-4  | Experimental Bioconcentration                         |          | Log Kow                | 3.7         |                                 |
| HEXADECYL METHACRYLATE                                                        | 2495-27-4     | Estimated BCF - Other                                 | 56 hours | Bioaccumulation factor | 37          | OECD305-Bioconcentration        |
| Carbon black                                                                  | 1333-86-4     | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| mequinol                                                                      | 150-76-5      | Experimental Bioconcentration                         |          | Log Kow                | 1.58        |                                 |
| naphthenic acids, copper salts                                                | 1338-02-9     | Analogous Compound BCF - Fish                         | 42 days  | Bioaccumulation factor | ≤27         | OECD305-Bioconcentration        |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | 68610-51-5    | Modeled Bioconcentration                              |          | Bioaccumulation factor | ≤55         | Catalogic™                      |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | 26741-53-7    | Modeled Bioconcentration                              |          | Log Kow                | 11          | Episuite™                       |
| 2,3-epoxypropyl methacrylate                                                  | 106-91-2      | Experimental Bioconcentration                         |          | Log Kow                | 0.96        | OECD 107 log Kow shke flask mtd |
| 1,4-dihydroxybenzene                                                          | 123-31-9      | Experimental Bioconcentration                         |          | Log Kow                | 0.59        |                                 |

#### 12.4. Mobility in soil

| Material                              | Identifier(s) | Test type                     | Study Type | Test result | Protocol                       |
|---------------------------------------|---------------|-------------------------------|------------|-------------|--------------------------------|
| methyl methacrylate                   | 80-62-6       | Experimental Mobility in Soil | Koc        | 8.7-72 l/kg |                                |
| Exo-1,7,7-trimethylbicyclo[2.2.1]hept | 7534-94-3     | Experimental Mobility in Soil | Koc        | 5,130 l/kg  | OECD 121 Estim. of Koc by HPLC |

|                                                                               |              |                                        |     |                     |                                |
|-------------------------------------------------------------------------------|--------------|----------------------------------------|-----|---------------------|--------------------------------|
| -2-yl methacrylate                                                            |              |                                        |     |                     |                                |
| dodecyl methacrylate                                                          | 142-90-5     | Analogous Compound<br>Mobility in Soil | Koc | 2040-51000 l/kg     | OECD 106 Adsp-Desb Batch Equil |
| 2-hydroxyethyl methacrylate                                                   | 868-77-9     | Experimental<br>Mobility in Soil       | Koc | 42.7 l/kg           |                                |
| Phosphorus-containing methacrylate monomer                                    | 1627542-04-4 | Experimental<br>Mobility in Soil       | Koc | 135 l/kg            |                                |
| mequinol                                                                      | 150-76-5     | Experimental<br>Mobility in Soil       | Koc | 55.7 l/kg           |                                |
| P-CRESOL, REACTION PRODUCTS WITH DICYCLOPENTADIENE AND ISOBUTYLENE            | 68610-51-5   | Experimental<br>Mobility in Soil       | Koc | >427000 l/kg        | OECD 121 Estim. of Koc by HPLC |
| PHOSPHOROUS ACID, CYCLIC NEOPENTANETETRAYL BIS(2,4-DI-TERT-BUTYLPHENYL) ESTER | 26741-53-7   | Modeled Mobility in Soil               | Koc | 10,000,000,000 l/kg | Episuite™                      |
| 2,3-epoxypropyl methacrylate                                                  | 106-91-2     | Modeled Mobility in Soil               | Koc | 20 l/kg             | Episuite™                      |
| 1,4-dihydroxybenzene                                                          | 123-31-9     | Modeled Mobility in Soil               | Koc | 40 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.

Incinerate uncured product in a permitted waste incineration facility. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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

|                                                                   | Ground Transport<br>(ADR)                                                  | Air Transport (IATA)                                                       | Marine Transport<br>(IMDG)                                                                                        |
|-------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>14.1 - UN Number or ID number</b>                              | UN2920                                                                     | UN2920                                                                     | UN2920                                                                                                            |
| <b>14.2 UN proper shipping name</b>                               | CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE) | CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE) | CORROSIVE LIQUID, FLAMMABLE, N.O.S.(METHACRYLIC ACID; METHYL METHACRYLATE; HEPTANE, BRANCHED, CYCLIC, AND LINEAR) |
| <b>14.3 Transport hazard class(es)</b>                            | 8                                                                          | 8                                                                          | 8                                                                                                                 |
| <b>14.4 Packing group</b>                                         | II                                                                         | II                                                                         | II                                                                                                                |
| <b>14.5 Environmental hazards</b>                                 | Environmentally Hazardous                                                  | Not applicable.                                                            | Marine Pollutant                                                                                                  |
| <b>14.6 Special precautions for user</b>                          | Please refer to the other sections of the SDS for further information.     | Please refer to the other sections of the SDS for further information.     | Please refer to the other sections of the SDS for further information.                                            |
| <b>14.7 Marine Transport in bulk according to IMO instruments</b> | No data available.                                                         | No data available.                                                         | No data available.                                                                                                |
| <b>Control Temperature</b>                                        | No data available.                                                         | No data available.                                                         | No data available.                                                                                                |
| <b>Emergency Temperature</b>                                      | No data available.                                                         | No data available.                                                         | No data available.                                                                                                |
| <b>ADR Classification Code</b>                                    | CF1                                                                        | Not applicable.                                                            | Not applicable.                                                                                                   |
| <b>IMDG Segregation Code</b>                                      | Not applicable.                                                            | Not applicable.                                                            | NONE                                                                                                              |

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>Identifier(s)</u> | <u>Classification</u>         | <u>Regulation</u>                                                                    |
|------------------------------|----------------------|-------------------------------|--------------------------------------------------------------------------------------|
| Carbon black                 | 1333-86-4            | Grp. 2B: Possible human carc. | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| 2,3-epoxypropyl methacrylate | 106-91-2             | Carc. 1B                      |                                                                                      |

|                              |           |                               |                                                                                      |
|------------------------------|-----------|-------------------------------|--------------------------------------------------------------------------------------|
| 2,3-epoxypropyl methacrylate | 106-91-2  | Grp. 2A: Probable human carc. | International Agency for Research on Cancer Regulation (EC) No. 1272/2008, Table 3.1 |
| 1,4-dihydroxybenzene         | 123-31-9  | Carc. 2                       |                                                                                      |
| 1,4-dihydroxybenzene         | 123-31-9  | Gr. 3: Not classifiable       |                                                                                      |
| methyl methacrylate          | 80-62-6   | Gr. 3: Not classifiable       |                                                                                      |
| Polyethylene                 | 9002-88-4 | Gr. 3: Not classifiable       |                                                                                      |

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

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

| Ingredient                                                                                                                     | %     |
|--------------------------------------------------------------------------------------------------------------------------------|-------|
| 4002 Synthetic rubber and factice derived from oils, mixtures of any product of heading 4001 with any product of this heading. | <= 15 |

#### Global inventory status

Contact 3M for more information.

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories      | Qualifying quantity (tonnes) for the application of |                         |
|------------------------|-----------------------------------------------------|-------------------------|
|                        | Lower-tier requirements                             | Upper-tier requirements |
| P5c FLAMMABLE LIQUIDS* | 5000                                                | 50000                   |

\*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply

Seveso named dangerous substances, Annex 1, Part 2

None

#### Regulation (EU) No 649/2012

No chemicals listed

#### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

#### List of relevant H statements

|      |                                     |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour.        |

|       |                                                                 |
|-------|-----------------------------------------------------------------|
| H302  | Harmful if swallowed.                                           |
| H311  | Toxic in contact with skin.                                     |
| H312  | Harmful in contact with skin.                                   |
| H314  | Causes severe skin burns and eye damage.                        |
| H315  | Causes skin irritation.                                         |
| H317  | May cause an allergic skin reaction.                            |
| H318  | Causes serious eye damage.                                      |
| H319  | Causes serious eye irritation.                                  |
| H332  | Harmful if inhaled.                                             |
| H335  | May cause respiratory irritation.                               |
| H341  | Suspected of causing genetic defects.                           |
| H350  | May cause cancer.                                               |
| H351  | Suspected of causing cancer.                                    |
| H360F | May damage fertility.                                           |
| H361d | Suspected of damaging the unborn child.                         |
| H372  | Causes damage to organs through prolonged or repeated exposure. |
| H400  | Very toxic to aquatic life.                                     |
| H410  | Very toxic to aquatic life with long lasting effects.           |
| H412  | Harmful to aquatic life with long lasting effects.              |
| H413  | May cause long lasting harmful effects to aquatic life.         |

#### List of Relevant Notas

|        |                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nota D | Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Revision information:

CLP: Ingredient table information was modified.  
Section 14 - Not Hazardous for Transportation information was modified.  
EU Section 14 - Table Data information was added.  
EU Section 14 - Table Data information was modified.  
EU Section 14 - Table Headers information was added.  
Label: CLP Percent Unknown information was modified.  
Label: Graphic information was modified.  
OEL Reg Agency Desc information was deleted.  
Section 03: SCL table information was modified.  
Section 08: Personal Protection - Apron Statement information was added.  
Section 1: Address information was modified.  
Section 1: E-mail address information was modified.  
Section 1: Product use information information was modified.  
Section 11: Acute Toxicity table information was modified.  
Section 11: Carcinogenicity Table information was modified.  
Section 11: Germ Cell Mutagenicity Table information was modified.  
Section 11: Health Effects - Ingestion information information was modified.  
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: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Mobility in soil information information was modified.

Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 14 Classification Code – Main Heading information was deleted.  
Section 14 Classification Code – Regulation Data information was deleted.  
Section 14 Control Temperature – Main Heading information was deleted.  
Section 14 Control Temperature – Regulation Data information was deleted.  
Section 14 Emergency Temperature – Main Heading information was deleted.  
Section 14 Emergency Temperature – Regulation Data information was deleted.  
Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.  
Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.  
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was deleted.  
Section 14 Other Dangerous Goods – Main Heading information was deleted.  
Section 14 Other Dangerous Goods – Regulation Data information was deleted.  
Section 14 Packing Group – Main Heading information was deleted.  
Section 14 Packing Group – Regulation Data information was deleted.  
Section 14 Proper Shipping Name information was deleted.  
Section 14 Regulations – Main Headings information was deleted.  
Section 14 Segregation – Regulation Data information was deleted.  
Section 14 Segregation Code – Main Heading information was deleted.  
Section 14 Special Precautions – Main Heading information was deleted.  
Section 14 Special Precautions – Regulation Data information was deleted.  
Section 14 Transport in bulk – Regulation Data information was deleted.  
Section 14 UN Number Column data information was deleted.  
Section 14 UN Number information was deleted.  
Section 15: Carcinogenicity information information was modified.  
Section 15: Chemical Safety Assessment information was modified.  
Section 15: Microparticles Header information was added.  
Section 15: Microparticles Statement information was added.  
Section 15: Microplastics Table information was added.  
Section 16: Two-column table displaying the unique list of Notas for all components of the given material. information was added.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 6: Accidental release personal information information was modified.  
Section 7: Conditions safe storage information was modified.  
Section 7.1: Microparticles Statement information was added.  
Section 8: DNEL table row information was added.  
Section 8: glove data value information was deleted.  
Section 8: glove data value information was modified.  
Section 8: Occupational exposure limit table information was deleted.  
Section 8: Occupational exposure limit table information was modified.  
Section 8: Personal Protection - Skin/body information information was deleted.  
Section 8: PNEC table row information was added.  
Section 8: Respiratory protection - recommended respirators information information was modified.  
Section 8: Skin protection - protective clothing information information was deleted.  
Section 8: STEL key information was deleted.  
Section 8: TWA key information was deleted.  
Section 9: Vapour pressure value information was added.  
Section 9: Vapour pressure value 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 modified.

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

satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

**3M Ireland MSDSs are available at [www.3M.com](http://www.3M.com)**