



## KIT LABEL

### 2.1. Classification of the substance or mixture

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

#### CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225

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

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

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

Reproductive Toxicity, Category 1B - Repr. 1B; H360FD

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

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

### 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### Symbols

GHS02 (Flame) | GHS07 (Exclamation mark) | GHS08 (Health Hazard) | GHS09 (Environment) |

#### Pictograms



#### Contains:

hydroxypropyl methacrylate; methyl methacrylate; Tert-butyl 3,5,5-trimethylperoxyhexanoate; bis-[4-(2,3-epoxypropoxy)phenyl]propane; Barium diboron tetraoxide; 2-hydroxyethyl methacrylate

#### HAZARD STATEMENTS:

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                |
| H315   | Causes skin irritation.                            |
| H319   | Causes serious eye irritation.                     |
| H317   | May cause an allergic skin reaction.               |
| H360FD | May damage fertility. May damage the unborn child. |
| H335   | May cause respiratory irritation.                  |
| H411   | Toxic to aquatic life with long lasting effects.   |

#### PRECAUTIONARY STATEMENTS

##### Prevention:

|       |  |
|-------|--|
| P201  | Obtain special instructions before use.  |
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours.   |
| P273  | Avoid release to the environment.  |
| P280K | Wear protective gloves and respiratory protection.   |

**Response:**

P308 + P313

IF exposed or concerned: Get medical advice/attention.

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

H317

May cause an allergic skin reaction.

H360FD

May damage fertility. May damage the unborn child.

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

P201

Obtain special instructions before use.

P261A

Avoid breathing vapours.

P280K

Wear protective gloves and respiratory protection.

**Response:**

P308 + P313

IF exposed or concerned: Get medical advice/attention.

**SUPPLEMENTAL INFORMATION:****Supplemental Precautionary Statements:**

Restricted to professional users.

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

Nota L applied.

**Revision information:**

GB Label: CLP Ingredients - kit components information was modified.

GB Section 02: CLP Remark(phrase) information was added.

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

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

Label: CLP Precautionary - Prevention information was modified.



## Safety Data Sheet

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

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part B

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

##### Identified uses

Professional

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

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

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

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

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

##### CLASSIFICATION:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225  
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Reproductive Toxicity, Category 1B - Repr. 1B; H360FD  
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

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

### SIGNAL WORD

DANGER.

### Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

### Pictograms



| Ingredient                  | CAS Nbr    | EC No.    | % by Wt |
|-----------------------------|------------|-----------|---------|
| methyl methacrylate         | 80-62-6    | 201-297-1 | 45 - 65 |
| 2-hydroxyethyl methacrylate | 868-77-9   | 212-782-2 | 1 - 10  |
| Barium diboron tetraoxide   | 13701-59-2 | 237-222-4 | 0.1 - 5 |
| HYDROXYPROPYL METHACRYLATE  | 27813-02-1 | 248-666-3 | 0.1 - 5 |

### HAZARD STATEMENTS:

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                |
| H315   | Causes skin irritation.                            |
| H319   | Causes serious eye irritation.                     |
| H317   | May cause an allergic skin reaction.               |
| H360FD | May damage fertility. May damage the unborn child. |
| H335   | May cause respiratory irritation.                  |
| H412   | Harmful to aquatic life with long lasting effects. |

### PRECAUTIONARY STATEMENTS

#### Prevention:

|       |  |
|-------|--|
| P201  | Obtain special instructions before use.  |
| P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours.   |
| P280E | Wear protective gloves.  |

#### Response:

|             |  |
|-------------|--|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention.           |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |

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

#### <=125 ml Hazard statements

|        |  |
|--------|--|
| H317   | May cause an allergic skin reaction.               |
| H360FD | May damage fertility. May damage the unborn child. |

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H412 Harmful to aquatic life with long lasting effects.

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

P201 Obtain special instructions before use.  
P280E Wear protective gloves.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**SUPPLEMENTAL INFORMATION:****Supplemental Precautionary Statements:**

Restricted to professional users.

9% of the mixture consists of components of unknown acute oral toxicity.

Contains 10% of components with unknown hazards to the aquatic environment.

Nota L applied.

**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**

| <b>Ingredient</b>                | <b>Identifier(s)</b>                       | <b>%</b> | <b>Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB</b>    |
|----------------------------------|--|----------|--|
| methyl methacrylate              | (CAS-No.) 80-62-6<br>(EC-No.) 201-297-1    | 45 - 65  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Nota D |
| Acrylonitrile-Butadiene Polymers | Trade Secret                               | 10 - 30  | Substance not classified as hazardous  |
| 2-hydroxyethyl methacrylate      | (CAS-No.) 868-77-9<br>(EC-No.) 212-782-2   | 1 - 10   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Nota D                    |
| Fillers                          | Trade Secret                               | 1 - 10   | Substance with a national occupational exposure limit  |
| Urethane Acrylate Oligomer       | Trade Secret                               | 0.1 - 5  | Substance not classified as hazardous  |
| HYDROXYPROPYL METHACRYLATE       | (CAS-No.) 27813-02-1<br>(EC-No.) 248-666-3 | 0.1 - 5  | Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |

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|  |  |         |   |
|--|--|---------|---|
| Barium diboron tetraoxide  | (CAS-No.) 13701-59-2<br>(EC-No.) 237-222-4 | 0.1 - 5 | Aquatic Chronic 3, H412   |
| Distillates (petroleum), hydrotreated light paraffinic                               | (CAS-No.) 64742-55-8<br>(EC-No.) 265-158-7 | 0.1 - 5 | Nota L<br>Asp. Tox. 1, H304   |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | (CAS-No.) 95175-93-2                       | < 3     | Skin Irrit. 2, H315<br>Eye Dam. 1, H318   |
| naphthenic acids, copper salts   | (CAS-No.) 1338-02-9<br>(EC-No.) 215-657-0  | < 0.2   | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Aquatic Acute 1, H400,M=10<br>Aquatic Chronic 1, H410,M=1 |
| Zinc   | (CAS-No.) 7440-66-6<br>(EC-No.) 231-175-3  | < 0.02  | Aquatic Acute 1, H400,M=10<br>Aquatic Chronic 1, H410,M=10  |

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

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

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

**Skin contact**

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

**Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**

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

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

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain).

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

**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**

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

### Hazardous Decomposition or By-Products

| <u>Substance</u>    | <u>Condition</u>   |
|---------------------|--------------------|
| Carbon monoxide     | During combustion. |
| Carbon dioxide.     | During combustion. |
| Hydrogen Chloride   | During combustion. |
| Hydrogen cyanide.   | During combustion. |
| Oxides of nitrogen. | 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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

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

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

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



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### 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

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

| Ingredient                | CAS Nbr      | Agency | Limit type  | Additional comments |
|---------------------------|--------------|--------|---|---------------------|
| Barium, soluble compounds | 13701-59-2   | UK HSC | TWA(as Ba):0.5 mg/m <sup>3</sup>  |                     |
| methyl methacrylate       | 80-62-6      | UK HSC | TWA:208 mg/m <sup>3</sup> (50 ppm);STEL:416 mg/m <sup>3</sup> (100 ppm)                   |                     |
| Fillers                   | Trade Secret | UK HSC | TWA(as respirable dust):2.4 mg/m <sup>3</sup> ;TWA(as inhalable dust):6 mg/m <sup>3</sup> |                     |

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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:

Safety glasses with side shields.

Indirect vented goggles.

##### Applicable Norms/Standards

Use eye protection conforming to EN 166

##### Skin/hand protection

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

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

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

### Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### Respiratory protection

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

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

For questions about suitability for a specific application, consult with your respirator manufacturer.

### Applicable Norms/Standards

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

## SECTION 9: Physical and chemical properties

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

|  |   |
|--|---|
| Physical state                         | Liquid.                                     |
| Specific Physical Form:                | Paste                                       |
| Colour                                 | Brown                                       |
| Odor                                   | Methacrylate                                |
| Odour threshold                        | No data available.                          |
| Melting point/freezing point           | Not applicable.                             |
| Boiling point/boiling range            | >=37.8 °C                                   |
| Flammability (solid, gas)              | Not applicable.                             |
| Flammable Limits(LEL)                  | No data available.                          |
| Flammable Limits(UEL)                  | No data available.                          |
| Flash point                            | >=10 °C [Test Method:Closed Cup]            |
| Autoignition temperature               | No data available.                          |
| Decomposition temperature              | No data available.                          |
| pH                                     | substance/mixture is non-soluble (in water) |
| Kinematic Viscosity                    | 14,851 mm <sup>2</sup> /sec                 |
| Water solubility                       | Nil   |
| Solubility- non-water                  | No data available.                          |
| Partition coefficient: n-octanol/water | No data available.                          |
| Vapour pressure                        | No data available.                          |
| Density                                | 1.01 g/ml                                   |
| Relative density                       | 1.01 [Ref Std:WATER=1]                      |
| Relative Vapour Density                | No data available.                          |

### 9.2. Other information

#### 9.2.2 Other safety characteristics

|                               |                    |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Evaporation rate              | No data available. |

**Molecular weight**

*Not applicable.*

## 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

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

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

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

#### Signs and Symptoms of Exposure

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

#### Inhalation

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

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

#### Eye contact

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

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**Ingestion**

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

**Additional Health Effects:**

**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.

**Reproductive/Developmental Toxicity:**

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

**Toxicological Data**

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

**Acute Toxicity**

| Name  | Route                          | Species                | Value  |
|---|--------------------------------|------------------------|--|
| Overall product   | Dermal                         |                        | No data available; calculated ATE >5,000 mg/kg   |
| Overall product   | Inhalation-Vapour(4 hr)        |                        | No data available; calculated ATE >20 - =50 mg/l |
| Overall product   | Ingestion                      |                        | No data available; calculated ATE >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                                 |
| Acrylonitrile-Butadiene Polymers  | Dermal                         | Rabbit                 | LD50 > 15,000 mg/kg                              |
| Acrylonitrile-Butadiene Polymers  | Ingestion                      | Rat                    | LD50 > 30,000 mg/kg                              |
| 2-hydroxyethyl methacrylate   | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                               |
| 2-hydroxyethyl methacrylate   | Ingestion                      | Rat                    | LD50 5,564 mg/kg                                 |
| Poly[oxy(methyl-1,2-ethanediyl)], a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                               |
| Poly[oxy(methyl-1,2-ethanediyl)], a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Dermal                         | similar health hazards | LD50 estimated to be > 5,000 mg/kg               |
| Fillers   | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                               |
| Fillers   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                |
| Fillers   | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                               |
| HYDROXYPROPYL METHACRYLATE  | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                               |
| HYDROXYPROPYL METHACRYLATE  | Ingestion                      | Rat                    | LD50 > 11,200 mg/kg                              |
| Distillates (petroleum), hydrotreated light paraffinic                              | Dermal                         | similar compounds      | LD50 > 2,000 mg/kg                               |
| Distillates (petroleum), hydrotreated light paraffinic                              | Inhalation-Dust/Mist (4 hours) | similar compounds      | LC50 > 5.53 mg/l                                 |
| Distillates (petroleum), hydrotreated light paraffinic                              | Ingestion                      | similar compounds      | LD50 > 5,000 mg/kg                               |
| Barium diboron tetraoxide   | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                               |
| Barium diboron tetraoxide   | Ingestion                      | Rabbit                 | LD50 100 mg/kg                                   |
| Barium diboron tetraoxide   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 1.5 mg/l                                    |
| naphthenic acids, copper salts  | Dermal                         | similar compounds      | LD50 > 2,000 mg/kg                               |
| naphthenic acids, copper salts  | Ingestion                      | similar                | LD50 >300, < 2,000 mg/kg                         |

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|      |                                |                        |                                    |
|------|--------------------------------|------------------------|------------------------------------|
|      |                                | compounds              |                                    |
| Zinc | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Zinc | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.41 mg/l                   |
| Zinc | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                 |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| methyl methacrylate   | Rabbit                 | Irritant                  |
| Acrylonitrile-Butadiene Polymers  | Professional judgement | No significant irritation |
| 2-hydroxyethyl methacrylate   | Rabbit                 | Minimal irritation        |
| Poly[oxy(methyl-1,2-ethanediy)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Not available          | Irritant                  |
| Fillers   | Rabbit                 | No significant irritation |
| HYDROXYPROPYL METHACRYLATE  | Rabbit                 | Minimal irritation        |
| Distillates (petroleum), hydrotreated light paraffinic                              | similar compounds      | No significant irritation |
| Barium diboron tetraoxide   | Rabbit                 | No significant irritation |
| naphthenic acids, copper salts  | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| methyl methacrylate   | Rabbit                 | Mild irritant             |
| Acrylonitrile-Butadiene Polymers  | Professional judgement | No significant irritation |
| 2-hydroxyethyl methacrylate   | Rabbit                 | Moderate irritant         |
| Poly[oxy(methyl-1,2-ethanediy)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Not available          | Corrosive                 |
| Fillers   | Rabbit                 | No significant irritation |
| HYDROXYPROPYL METHACRYLATE  | Rabbit                 | Moderate irritant         |
| Distillates (petroleum), hydrotreated light paraffinic                              | similar compounds      | No significant irritation |
| Barium diboron tetraoxide   | Rabbit                 | No significant irritation |
| naphthenic acids, copper salts  | In vitro data          | No significant irritation |
| Zinc  | Rabbit                 | No significant irritation |

**Skin Sensitisation**

| Name                        | Species          | Value          |
|-----------------------------|------------------|----------------|
| methyl methacrylate         | Human and animal | Sensitising    |
| 2-hydroxyethyl methacrylate | Human and animal | Sensitising    |
| Fillers                     | Human and animal | Not classified |

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|  |                   |                |
|--|-------------------|----------------|
| HYDROXYPROPYL METHACRYLATE                             | Human and animal  | Sensitising    |
| Distillates (petroleum), hydrotreated light paraffinic | similar compounds | Not classified |
| Barium diboron tetraoxide                              | Guinea pig        | Not classified |
| naphthenic acids, copper salts                         | Guinea pig        | Not classified |

**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 |
| 2-hydroxyethyl methacrylate                            | In vivo  | Not mutagenic  |
| 2-hydroxyethyl methacrylate                            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Fillers  | In Vitro | Not mutagenic  |
| HYDROXYPROPYL METHACRYLATE                             | In vivo  | Not mutagenic  |
| HYDROXYPROPYL METHACRYLATE                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Distillates (petroleum), hydrotreated light paraffinic | In Vitro | Not mutagenic  |
| Barium diboron tetraoxide                              | In Vitro | Not mutagenic  |
| Barium diboron tetraoxide                              | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name                | Route          | Species          | Value  |
|---------------------|----------------|------------------|--|
| methyl methacrylate | Ingestion      | Rat              | Not carcinogenic   |
| methyl methacrylate | Inhalation     | Human and animal | Not carcinogenic   |
| Fillers             | Not specified. | Mouse            | Some positive data exist, but the data are not sufficient for classification |

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

| Name                        | Route      | Value                                  | Species | Test result           | Exposure Duration              |
|-----------------------------|------------|--|---------|-----------------------|--------------------------------|
| 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           |
| 2-hydroxyethyl methacrylate | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring & 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           | prematuring & during           |

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|                            |           |  |        |                       |                            |
|----------------------------|-----------|--|--------|-----------------------|----------------------------|
|                            |           |  |        | mg/kg/day             | gestation                  |
| Fillers                    | Ingestion | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day   | 1 generation               |
| Fillers                    | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day   | 1 generation               |
| Fillers                    | Ingestion | Not classified for development         | Rat    | NOAEL 1,350 mg/kg/day | during organogenesis       |
| HYDROXYPROPYL METHACRYLATE | Ingestion | Not classified for female reproduction | Rat    | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| HYDROXYPROPYL METHACRYLATE | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day | 49 days                    |
| HYDROXYPROPYL METHACRYLATE | Ingestion | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | during gestation           |
| Barium diboron tetraoxide  | Ingestion | Toxic to female reproduction           | Rat    | NOAEL 800 mg/kg/day   | 90 days                    |
| Barium diboron tetraoxide  | Ingestion | Toxic to development                   | Rabbit | NOAEL 20 mg/kg/day    | during organogenesis       |
| Barium diboron tetraoxide  | Ingestion | Toxic to male reproduction             | Rat    | NOAEL 350 mg/kg/day   | 90 days                    |

**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 |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| HYDROXYPROPYL METHACRYLATE   | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                       |
| Barium diboron tetraoxide  | Ingestion  | nervous system         | Not classified   | Rat                    | NOAEL 200 mg/kg     |                       |

**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               |
| Fillers             | Inhalation | respiratory system   silicosis  | Not classified   | Human                   | NOAEL Not available  | occupational exposure |

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|                            |            |   |                |     |                       |         |
|----------------------------|------------|---|----------------|-----|-----------------------|---------|
| HYDROXYPROPYL METHACRYLATE | Inhalation | blood   | Not classified | Rat | NOAEL 0.5 mg/l        | 21 days |
| HYDROXYPROPYL METHACRYLATE | Ingestion  | hematopoietic system   heart   endocrine system   liver   immune system   nervous system   kidney and/or bladder  | Not classified | Rat | NOAEL 1,000 mg/kg/day | 41 days |
| Barium diboron tetraoxide  | Ingestion  | hematopoietic system   liver   heart   skin   endocrine system   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat | NOAEL 700 mg/kg/day   | 90 days |

**Aspiration Hazard**

| Name   | Value             |
|--|-------------------|
| Distillates (petroleum), hydrotreated light paraffinic | Aspiration hazard |

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

**11.2. Information on other hazards**

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

**SECTION 12: Ecological information**

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

**12.1. Toxicity**

No product test data available.

| Material                         | CAS #        | Organism         | Type  | Exposure   | Test endpoint | Test result               |
|----------------------------------|--------------|------------------|---|------------|---------------|---------------------------|
| 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) |
| Acrylonitrile-Butadiene Polymers | Trade Secret | N/A              | Data not available or insufficient for classification | N/A        | N/A           | N/A                       |
| 2-hydroxyethyl methacrylate      | 868-77-9     | Turbot           | Analogous Compound                                    | 96 hours   | LC50          | 833 mg/l                  |



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|  |              |                  |   |          |       |                             |
|--|--------------|------------------|---|----------|-------|-----------------------------|
| 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  | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A   | N/A                         |
| Barium diboron tetraoxide                              | 13701-59-2   | Activated sludge | Experimental  | 3 hours  | NOEC  | 100 mg/l                    |
| Barium diboron tetraoxide                              | 13701-59-2   | Green algae      | Experimental  | 72 hours | EC50  | 7.8 mg/l                    |
| Barium diboron tetraoxide                              | 13701-59-2   | Rainbow trout    | Experimental  | 96 hours | LC50  | 62 mg/l                     |
| Barium diboron tetraoxide                              | 13701-59-2   | Water flea       | Experimental  | 48 hours | EC50  | 20.3 mg/l                   |
| Barium diboron tetraoxide                              | 13701-59-2   | Green algae      | Experimental  | 72 hours | NOEC  | 1.1 mg/l                    |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8   | Fathead minnow   | Estimated   | 96 hours | LL50  | >100 mg/l                   |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8   | Water flea       | Estimated   | 48 hours | EL50  | >100 mg/l                   |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8   | Green algae      | Estimated   | 72 hours | NOEL  | 100 mg/l                    |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8   | Water flea       | Estimated   | 21 days  | NOEC  | 10 mg/l                     |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Bacteria         | Experimental  | N/A      | EC10  | 1,140 mg/l                  |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Golden Orfe      | Experimental  | 48 hours | EC50  | 493 mg/l                    |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Green algae      | Experimental  | 72 hours | ErC50 | >97.2 mg/l                  |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Water flea       | Experimental  | 48 hours | EC50  | >143 mg/l                   |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Green algae      | Experimental  | 72 hours | NOEC  | 97.2 mg/l                   |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Water flea       | Experimental  | 21 days  | NOEC  | 45.2 mg/l                   |

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part B**

|  |            |                  |   |            |       |                        |
|--|------------|------------------|---|------------|-------|------------------------|
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-w.-(phosphonooxy)- | 95175-93-2 | N/A              | Data not available or insufficient for classification | N/A        | N/A   | N/A                    |
| naphthenic acids, copper salts   | 1338-02-9  | Green algae      | Estimated   | 72 hours   | ErC50 | 0.629 mg/l             |
| naphthenic acids, copper salts   | 1338-02-9  | Water flea       | Estimated   | 48 hours   | EC50  | 0.0756 mg/l            |
| naphthenic acids, copper salts   | 1338-02-9  | Zebra Fish       | Estimated   | 96 hours   | LC50  | 0.07 mg/l              |
| naphthenic acids, copper salts   | 1338-02-9  | Fathead minnow   | Estimated   | 32 days    | EC10  | 0.0354 mg/l            |
| naphthenic acids, copper salts   | 1338-02-9  | Green algae      | Estimated   | N/A        | NOEC  | 0.132 mg/l             |
| naphthenic acids, copper salts   | 1338-02-9  | Sediment Worm    | Estimated   | 28 days    | NOEC  | 110 mg/kg (Dry Weight) |
| naphthenic acids, copper salts   | 1338-02-9  | Water flea       | Estimated   | 7 days     | NOEC  | 0.02 mg/l              |
| naphthenic acids, copper salts   | 1338-02-9  | Activated sludge | Estimated   | N/A        | EC50  | 42 mg/l                |
| naphthenic acids, copper salts   | 1338-02-9  | Barley           | Estimated   | 4 days     | NOEC  | 96 mg/kg (Dry Weight)  |
| naphthenic acids, copper salts   | 1338-02-9  | Redworm          | Estimated   | 56 days    | NOEC  | 60 mg/kg (Dry Weight)  |
| naphthenic acids, copper salts   | 1338-02-9  | Soil microbes    | Estimated   | 4 days     | NOEC  | 72 mg/kg (Dry Weight)  |
| naphthenic acids, copper salts   | 1338-02-9  | Springtail       | Estimated   | 28 days    | NOEC  | 167 mg/kg (Dry Weight) |
| Zinc   | 7440-66-6  | Bacteria         | Estimated   | 30 minutes | EC10  | 0.3 mg/l               |
| Zinc   | 7440-66-6  | Green algae      | Estimated   | 72 hours   | EC50  | 0.042 mg/l             |
| Zinc   | 7440-66-6  | Rainbow trout    | Estimated   | 96 hours   | LC50  | 0.169 mg/l             |
| Zinc   | 7440-66-6  | Water flea       | Estimated   | 48 hours   | EC50  | 0.06 mg/l              |
| Zinc   | 7440-66-6  | Green algae      | Estimated   | 72 hours   | NOEC  | 0.005 mg/l             |
| Zinc   | 7440-66-6  | Water flea       | Estimated   | 7 days     | NOEC  | 0.013 mg/l             |

**12.2. Persistence and degradability**

| Material   | CAS Nbr      | 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)         |
| Acrylonitrile-Butadiene Polymers                       | Trade Secret | Data not availbl-insufficient | N/A      | N/A                           | N/A                               | N/A                               |
| 2-hydroxyethyl methacrylate                            | 868-77-9     | Experimental Biodegradation   | 28 days  | BOD                           | 84 %BOD/COD                       | 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 func of pH    |
| Fillers  | Trade Secret | Data not availbl-insufficient | N/A      | N/A                           | N/A                               | N/A                               |
| Barium diboron tetraoxide                              | 13701-59-2   | Data not availbl-insufficient | N/A      | N/A                           | N/A                               | N/A                               |
| Distillates (petroleum), hydrotreated light paraffinic | 64742-55-8   | Estimated Biodegradation      | 28 days  | CO2 evolution                 | 22 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| HYDROXYPROPYL METHACRYLATE                             | 27813-02-1   | Experimental Biodegradation   | 28 days  | BOD                           | 81 %BOD/ThOD                      | OECD 301C - MITI test (I)         |

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part B**

|  |            |                                    |     |     |     |     |
|--|------------|------------------------------------|-----|-----|-----|-----|
| E  |            |                                    |     |     |     |     |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | 95175-93-2 | Data not available or insufficient | N/A | N/A | N/A | N/A |
| naphthenic acids, copper salts   | 1338-02-9  | Data not available or insufficient | N/A | N/A | N/A | N/A |
| Zinc   | 7440-66-6  | Data not available or insufficient | N/A | N/A | N/A | N/A |

**12.3 : Bioaccumulative potential**

| Material   | Cas No.      | 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 |
| Acrylonitrile-Butadiene Polymers   | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| 2-hydroxyethyl methacrylate  | 868-77-9     | Experimental Bioconcentration                         |          | Log Kow                | 0.42        | OECD 107 log Kow shke flask mtd |
| Fillers  | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| Barium diboron tetraoxide  | 13701-59-2   | Experimental Bioconcentration                         |          | Log Kow                | -0.70       |                                 |
| Distillates (petroleum), hydrotreated light paraffinic                               | 64742-55-8   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| HYDROXYPROPYL METHACRYLATE   | 27813-02-1   | Experimental Bioconcentration                         |          | Log Kow                | 0.97        | EC A.8 Partition Coefficient    |
| Poly[oxy(methyl-1,2-ethanediyl)], .a.-(2-methyl-1-oxo-2-propenyl)-.w.-(phosphonoxy)- | 95175-93-2   | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                             |
| naphthenic acids, copper salts   | 1338-02-9    | Analogous Compound BCF - Fish                         | 42 days  | Bioaccumulation factor | ≤27         | OECD305-Bioconcentration        |
| Zinc   | 7440-66-6    | Estimated BCF - Fish                                  | 56 days  | Bioaccumulation factor | 242         |                                 |

**12.4. Mobility in soil**

| Material                    | Cas No.    | Test type                     | Study Type | Test result | Protocol  |
|-----------------------------|------------|-------------------------------|------------|-------------|-----------|
| methyl methacrylate         | 80-62-6    | Experimental Mobility in Soil | Koc        | 8.7-72 l/kg |           |
| 2-hydroxyethyl methacrylate | 868-77-9   | Experimental Mobility in Soil | Koc        | 42.7 l/kg   |           |
| HYDROXYPROPYL METHACRYLATE  | 27813-02-1 | Experimental Mobility in Soil | Koc        | 10 l/kg     | Episuite™ |

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

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

**12.6. Other adverse effects**

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part B**

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

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste 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**

|  | <b>Ground Transport (ADR)</b>  | <b>Air Transport (IATA)</b>  | <b>Marine Transport (IMDG)</b>   |
|--|--|--|--|
| <b>14.1 UN number</b>  | UN1133   | UN1133   | UN1133   |
| <b>14.2 UN proper shipping name</b>  | ADHESIVES  | ADHESIVES  | ADHESIVES  |
| <b>14.3 Transport hazard class(es)</b>   | 3  | 3  | 3  |
| <b>14.4 Packing group</b>  | II   | II   | II   |
| <b>14.5 Environmental hazards</b>  | Not Environmentally Hazardous  | Not applicable   | Not a 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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>ADR Classification Code</b>   | F1   | Not applicable.  | Not applicable.  |
| <b>IMDG Segregation</b>  | Not applicable.  | Not applicable.  | NONE   |

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part B**

|             |  |  |  |
|-------------|--|--|--|
| <b>Code</b> |  |  |  |
|-------------|--|--|--|

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

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Carcinogenicity****Ingredient****CAS Nbr****Classification****Regulation**

methyl methacrylate

80-62-6

Gr. 3: Not classifiable

International Agency  
for Research on Cancer**Global inventory status**

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**COMAH Regulation, SI 2015/483**

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

| Dangerous Substances           | Identifier(s) | Qualifying quantity (tonnes) for the application of |                         |
|--------------------------------|---------------|---|-------------------------|
|                                |               | Lower-tier requirements                             | Upper-tier requirements |
| naphthenic acids, copper salts | 1338-02-9     | 10  | 50                      |
| methyl methacrylate            | 80-62-6       | 50  | 200                     |
| Zinc                           | 7440-66-6     | 50  | 200                     |
| Zinc                           | 7440-66-6     | 100   | 200                     |

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

No chemicals listed

**15.2. Chemical Safety Assessment**

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

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

H225 Highly flammable liquid and vapour.

|        |   |
|--------|---|
| H226   | Flammable liquid and vapour.                          |
| H302   | Harmful if swallowed.                                 |
| H304   | May be fatal if swallowed and enters airways.         |
| H315   | Causes skin irritation.                               |
| H317   | May cause an allergic skin reaction.                  |
| H318   | Causes serious eye damage.                            |
| H319   | Causes serious eye irritation.                        |
| H335   | May cause respiratory irritation.                     |
| H360FD | May damage fertility. May damage the unborn child.    |
| H400   | Very toxic to aquatic life.                           |
| H410   | Very toxic to aquatic life with long lasting effects. |
| H412   | Harmful to aquatic life with long lasting effects.    |

**Revision information:**

Section 11: Acute Toxicity table 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 SDSs for Great Britain are available at [www.3M.com/uk](http://www.3M.com/uk)**

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



## Safety Data Sheet

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

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A

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

##### Identified uses

Product

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

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

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

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

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

##### CLASSIFICATION:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315  
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

**2.2. Label elements**

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

**SIGNAL WORD**

WARNING.

**Symbols**

GHS07 (Exclamation mark) | GHS09 (Environment) |

**Pictograms**



| Ingredient                                | CAS Nbr    | EC No.    | % by Wt |
|---|------------|-----------|---------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane   | 1675-54-3  | 216-823-5 | 15 - 35 |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4 | 236-050-7 | 1 - 10  |

**HAZARD STATEMENTS:**

|      |  |
|------|--|
| H315 | Causes skin irritation.                          |
| H319 | Causes serious eye irritation.                   |
| H317 | May cause an allergic skin reaction.             |
| H411 | Toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

|       |                                   |
|-------|-----------------------------------|
| P273  | Avoid release to the environment. |
| P280E | Wear protective gloves.           |

**Response:**

|                    |  |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P391               | Collect spillage.  |

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

**<=125 ml Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
|------|--------------------------------------|

**<=125 ml Precautionary statements**

**Prevention:**

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

**Response:**

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

9% of the mixture consists of components of unknown acute oral toxicity.



**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A**

9% of the mixture consists of components of unknown acute dermal toxicity.

Contains 29% of components with unknown hazards to the aquatic environment.

**2.3. Other hazards**

None known.

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

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

| Ingredient                                | Identifier(s)                              | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB                  |
|---|--|---------|---|
| Oxydipropyl dibenzoate                    | (CAS-No.) 27138-31-4<br>(EC-No.) 248-258-5 | 40 - 60 | Aquatic Chronic 3, H412   |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | (CAS-No.) 1675-54-3<br>(EC-No.) 216-823-5  | 15 - 35 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411          |
| Catalyst.                                 | Trade Secret                               | 10 - 15 | Substance not classified as hazardous   |
| Non-hazardous ingredients                 | Trade Secret                               | 1 - 10  | Substance not classified as hazardous   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | (CAS-No.) 13122-18-4<br>(EC-No.) 236-050-7 | 1 - 10  | Org. Perox. CD, H242<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 3, H412 |
| Fillers                                   | Trade Secret                               | 1 - 10  | Substance with a national occupational exposure limit   |

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

**Specific Concentration Limits**

| Ingredient                              | Identifier(s)                             | Specific Concentration Limits                                 |
|---|---|---|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | (CAS-No.) 1675-54-3<br>(EC-No.) 216-823-5 | (C >= 5%) Skin Irrit. 2, H315<br>(C >= 5%) Eye Irrit. 2, H319 |

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

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

**Skin contact**

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

**Eye contact**

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

**If swallowed**

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

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

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

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

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

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

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

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

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

**Hazardous Decomposition or By-Products**

| <u>Substance</u>  | <u>Condition</u>   |
|-------------------|--------------------|
| Aldehydes.        | During combustion. |
| Carbon monoxide   | During combustion. |
| Carbon dioxide.   | During combustion. |
| Hydrogen Chloride | 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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures**

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

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

**6.2. Environmental precautions**

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

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent

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material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

Store away from 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

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

| Ingredient | CAS Nbr      | Agency | Limit type  | Additional comments |
|------------|--------------|--------|---|---------------------|
| Fillers    | Trade Secret | UK HSE | TWA(as respirable dust):2.4 mg/m <sup>3</sup> ;TWA(as inhalable dust):6 mg/m <sup>3</sup> |                     |

UK HSE : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety glasses with side shields.

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Indirect vented goggles.

### *Applicable Norms/Standards*

Use eye protection conforming to EN 166

### **Skin/hand protection**

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

| <b>Material</b>  | <b>Thickness (mm)</b> | <b>Breakthrough Time</b> |
|------------------|-----------------------|--------------------------|
| Polymer laminate | No data available     | No data available        |

### *Applicable Norms/Standards*

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### **Respiratory protection**

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

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| <b>Physical state</b>               | Liquid.                               |
| <b>Specific Physical Form:</b>      | Paste                                 |
| <b>Colour</b>                       | Grey                                  |
| <b>Odor</b>                         | Mild Ester                            |
| <b>Odour threshold</b>              | <i>No data available.</i>             |
| <b>Melting point/freezing point</b> | <i>Not applicable.</i>                |
| <b>Boiling point/boiling range</b>  | $\geq 65.6$ °C                        |
| <b>Flammability</b>                 | Not applicable.                       |
| <b>Flammable Limits(LEL)</b>        | <i>No data available.</i>             |
| <b>Flammable Limits(UEL)</b>        | <i>No data available.</i>             |
| <b>Flash point</b>                  | $> 93.3$ °C [Test Method: Closed Cup] |
| <b>Autoignition temperature</b>     | <i>No data available.</i>             |
| <b>Decomposition temperature</b>    | <i>No data available.</i>             |

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|   |  |
|---|--|
| <b>pH</b>                                     | <i>substance/mixture is non-soluble (in water)</i> |
| <b>Kinematic Viscosity</b>                    | 18,519 mm <sup>2</sup> /sec                        |
| <b>Water solubility</b>                       | Nil  |
| <b>Solubility- non-water</b>                  | <i>No data available.</i>                          |
| <b>Partition coefficient: n-octanol/water</b> | <i>No data available.</i>                          |
| <b>Vapour pressure</b>                        | <i>No data available.</i>                          |
| <b>Density</b>                                | 1.08 g/ml  |
| <b>Relative density</b>                       | 1.08 [Ref Std: WATER=1]                            |
| <b>Relative Vapour Density</b>                | <i>No data available.</i>                          |
| <b>Particle Characteristics</b>               | <i>Not applicable.</i>                             |

**9.2. Other information****9.2.2 Other safety characteristics**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>EU Volatile Organic Compounds</b> | <i>No data available.</i> |
| <b>Evaporation rate</b>              | <i>No data available.</i> |
| <b>Molecular weight</b>              | <i>No data available.</i> |

**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**

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

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

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

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

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A**

**Great Britain.**

**Signs and Symptoms of Exposure**

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

**Inhalation**

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

**Skin contact**

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

**Eye contact**

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion**

May be harmful if swallowed.

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

**Toxicological Data**

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

**Acute Toxicity**

| Name                                      | Route                          | Species                | Value   |
|---|--------------------------------|------------------------|---|
| Overall product                           | Dermal                         |                        | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                           | Ingestion                      |                        | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Oxydipropyl dibenzoate                    | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| Oxydipropyl dibenzoate                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 200 mg/l   |
| Oxydipropyl dibenzoate                    | Ingestion                      | Rat                    | LD50 3,295 mg/kg  |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane   | Dermal                         | Rat                    | LD50 > 1,600 mg/kg                                      |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane   | Ingestion                      | Rat                    | LD50 > 1,000 mg/kg                                      |
| Catalyst.                                 | Dermal                         | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| Catalyst.                                 | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                                      |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                                      |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.8 mg/l   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Ingestion                      | Rat                    | LD50 12,905 mg/kg                                       |
| Fillers                                   | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                                      |
| Fillers                                   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                                       |
| Fillers                                   | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
| Oxydipropyl dibenzoate                  | Rabbit  | No significant irritation |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Rabbit  | Mild irritant             |

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|   |        |                           |
|---|--------|---------------------------|
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Rabbit | No significant irritation |
| Fillers                                   | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                      | Species | Value                     |
|---|---------|---------------------------|
| Oxydipropyl dibenzoate                    | Rabbit  | No significant irritation |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | Rabbit  | Moderate irritant         |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Rabbit  | No significant irritation |
| Fillers                                   | Rabbit  | No significant irritation |

**Skin Sensitisation**

| Name                                      | Species          | Value          |
|---|------------------|----------------|
| Oxydipropyl dibenzoate                    | Guinea pig       | Not classified |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | Human and animal | Sensitising    |
| Catalyst.                                 | Mouse            | Not classified |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | Guinea pig       | Sensitising    |
| Fillers                                   | Human and animal | Not classified |

**Respiratory Sensitisation**

| Name                                    | Species | Value          |
|---|---------|----------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name                                    | Route    | Value  |
|---|----------|--|
| Oxydipropyl dibenzoate                  | In Vitro | Not mutagenic  |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | In vivo  | Not mutagenic  |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Catalyst.                               | In Vitro | Not mutagenic  |
| Fillers                                 | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name                                    | Route          | Species | Value  |
|---|----------------|---------|--|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal         | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| Fillers                                 | Not specified. | Mouse   | Some positive data exist, but the data are not sufficient for classification |

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

| Name                                    | Route     | Value                                  | Species | Test result           | Exposure Duration |
|---|-----------|--|---------|-----------------------|-------------------|
| Oxydipropyl dibenzoate                  | Ingestion | Not classified for female reproduction | Rat     | NOAEL 500 mg/kg/day   | 2 generation      |
| Oxydipropyl dibenzoate                  | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 400 mg/kg/day   | 2 generation      |
| Oxydipropyl dibenzoate                  | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | during gestation  |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750             | 2 generation      |

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|   |           |  |        | mg/kg/day             |                      |
|---|-----------|--|--------|-----------------------|----------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal    | Not classified for development         | Rabbit | NOAEL 300 mg/kg/day   | during organogenesis |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for development         | Rat    | NOAEL 750 mg/kg/day   | 2 generation         |
| Fillers                                 | Ingestion | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day   | 1 generation         |
| Fillers                                 | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day   | 1 generation         |
| Fillers                                 | Ingestion | Not classified for development         | Rat    | NOAEL 1,350 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 |
|-----------|-----------|-----------------|----------------|---------|-------------------|-------------------|
| Catalyst. | Ingestion | nervous system  | Not classified | Rat     | NOAEL 2,000 mg/kg |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                    | Route      | Target Organ(s)  | Value          | Species | Test result           | Exposure Duration     |
|---|------------|--|----------------|---------|-----------------------|-----------------------|
| Oxydipropyl dibenzoate                  | Ingestion  | hematopoietic system   liver   | Not classified | Rat     | NOAEL 2,500 mg/kg/day | 90 days               |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal     | liver  | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years               |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal     | nervous system   | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks              |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |
| Fillers                                 | Inhalation | respiratory system   silicosis   | 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 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**



**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A**

No product test data available.

| Material                                  | CAS #        | Organism         | Type  | Exposure | Test endpoint | Test result |
|---|--------------|------------------|---|----------|---------------|-------------|
| Oxydipropyl dibenzoate                    | 27138-31-4   | Fathead minnow   | Experimental  | 96 hours | LC50          | 3.7 mg/l    |
| Oxydipropyl dibenzoate                    | 27138-31-4   | Green algae      | Experimental  | 72 hours | EL50          | 4.9 mg/l    |
| Oxydipropyl dibenzoate                    | 27138-31-4   | Water flea       | Experimental  | 48 hours | EL50          | 19.31 mg/l  |
| Oxydipropyl dibenzoate                    | 27138-31-4   | Green algae      | Experimental  | 72 hours | EC10          | 0.89 mg/l   |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Activated sludge | Analogous Compound                                    | 3 hours  | IC50          | >100 mg/l   |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Rainbow trout    | Estimated   | 96 hours | LC50          | 2 mg/l      |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Water flea       | Estimated   | 48 hours | EC50          | 1.8 mg/l    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Green algae      | Experimental  | 72 hours | ErC50         | >11 mg/l    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Green algae      | Experimental  | 72 hours | NOEC          | 4.2 mg/l    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane   | 1675-54-3    | Water flea       | Experimental  | 21 days  | NOEC          | 0.3 mg/l    |
| Catalyst.                                 | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| Fillers                                   | Trade Secret | N/A              | Data not available or insufficient for classification | N/A      | N/A           | N/A         |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Green algae      | Experimental  | 72 hours | ErC50         | 0.51 mg/l   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Rainbow trout    | Experimental  | 96 hours | LC50          | 7.03 mg/l   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Water flea       | Experimental  | 48 hours | EC50          | >100 mg/l   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Green algae      | Experimental  | 72 hours | NOEC          | 0.125 mg/l  |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Water flea       | Experimental  | 21 days  | NOEC          | 0.22 mg/l   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Activated sludge | Experimental  | 3 hours  | EC50          | 327.02 mg/l |

**12.2. Persistence and degradability**

| Material                                | CAS Nbr    | Test type                   | Duration | Study Type                  | Test result                       | Protocol                            |
|---|------------|-----------------------------|----------|-----------------------------|-----------------------------------|-------------------------------------|
| Oxydipropyl dibenzoate                  | 27138-31-4 | Experimental Biodegradation | 28 days  | CO2 evolution               | 85 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2   |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3  | Experimental Biodegradation | 28 days  | BOD                         | 5 %BOD/COD                        | OECD 301F - Manometric respirometry |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3  | Experimental Hydrolysis     |          | Hydrolytic half-life (pH 7) | 117 hours (t 1/2)                 | OECD 111 Hydrolysis func of pH      |

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A**

|   |              |  |         |                               |                                     |                                   |
|---|--------------|--|---------|-------------------------------|-------------------------------------|-----------------------------------|
| yl]propane                                |              |  |         |                               |                                     |                                   |
| Catalyst.                                 | Trade Secret | Experimental Biodegradation              | 28 days | CO2 evolution                 | 29.1 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Catalyst.                                 | Trade Secret | Estimated Photolysis                     |         | Photolytic half-life (in air) | 1.48 days (t 1/2)                   |                                   |
| Fillers                                   | Trade Secret | Data not availbl-insufficient            | N/A     | N/A                           | N/A                                 | N/A                               |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Experimental Biodegradation              | 28 days | BOD                           | 72 %BOD/ThOD                        | OECD 301D - Closed bottle test    |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Experimental Aquatic Inherent Biodegrad. | 56 days | BOD                           | 58 %BOD/ThOD                        | OECD 302A - Modified SCAS Test    |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Experimental Hydrolysis                  |         | Hydrolytic half-life (pH 7)   | 51 hours (t 1/2)                    | OECD 111 Hydrolysis func of pH    |

**12.3 : Bioaccumulative potential**

| Material                                  | Cas No.      | Test type   | Duration | Study Type             | Test result | Protocol                     |
|---|--------------|---|----------|------------------------|-------------|------------------------------|
| Oxydipropyl dibenzoate                    | 27138-31-4   | Modeled Bioconcentration                              |          | Bioaccumulation factor | 8           | Catalogic™                   |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane   | 1675-54-3    | Experimental Bioconcentration                         |          | Log Kow                | 3.242       | OECD 117 log Kow HPLC method |
| Catalyst.                                 | Trade Secret | Experimental Bioconcentration                         |          | Log Kow                | 2.57        |                              |
| Fillers                                   | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                          |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Modeled Bioconcentration                              |          | Bioaccumulation factor | 380         | Catalogic™                   |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Experimental Bioconcentration                         |          | Log Kow                | 5.16        | OECD 117 log Kow HPLC method |

**12.4. Mobility in soil**

| Material                                  | Cas No.      | Test type                  | Study Type | Test result | Protocol             |
|---|--------------|----------------------------|------------|-------------|----------------------|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane   | 1675-54-3    | Modeled Mobility in Soil   | Koc        | 450 l/kg    | Episuite™            |
| Catalyst.                                 | Trade Secret | Estimated Mobility in Soil | Koc        | <270 l/kg   | ACD/Labs ChemSketch™ |
| Tert-butyl 3,5,5-trimethylperoxyhexanoate | 13122-18-4   | Modeled Mobility in Soil   | Koc        | 3,550 l/kg  | Episuite™            |

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

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

**12.6. Other adverse effects**

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

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

**3M™ Scotch-Weld™ Metal Bonder Acrylic Adhesive DP8407NS, Gray, Part A**

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/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**

|  | <b>Ground Transport (ADR)</b>  | <b>Air Transport (IATA)</b>  | <b>Marine Transport (IMDG)</b>   |
|--|--|--|--|
| <b>14.1 UN number</b>  | UN3082   | UN3082   | UN3082   |
| <b>14.2 UN proper shipping name</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(EPOXY RESIN; ORGANIC PEROXIDE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(EPOXY RESIN; ORGANIC PEROXIDE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(EPOXY RESIN; ORGANIC PEROXIDE) |
| <b>14.3 Transport hazard class(es)</b>   | 9  | 9  | 9  |
| <b>14.4 Packing group</b>  | III  | III  | III  |
| <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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b> | No data available.   | No data available.   | No data available.   |
| <b>Control Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>Emergency Temperature</b>   | No data available.   | No data available.   | No data available.   |
| <b>ADR Classification Code</b>   | M6   | 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>CAS Nbr</u> | <u>Classification</u>   | <u>Regulation</u>                           |
|---|----------------|-------------------------|---|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3      | Gr. 3: Not classifiable | International Agency for Research on Cancer |

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

The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| <u>Ingredient</u>                       | <u>CAS Nbr</u> |
|---|----------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3      |

Restriction status: listed in UK REACH Annex XVII

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

#### Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

#### COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories                       | Qualifying quantity (tonnes) for the application of |                         |
|---|---|-------------------------|
|   | Lower-tier requirements                             | Upper-tier requirements |
| E2 Hazardous to the Aquatic environment | 200   | 500                     |

Seveso named dangerous substances, Annex 1, Part 2

None

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

No chemicals listed

### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

### List of relevant H statements

|      |  |
|------|--|
| H242 | Heating may cause a fire.                          |
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H319 | Causes serious eye irritation.                     |
| H400 | Very toxic to aquatic life.                        |
| H411 | Toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects. |

### Revision information:

GB Section 02: CLP Ingredient table information was modified.

Section 1: Product use information information was modified.

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

Section 8: Eye/face protection information information was modified.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was modified.

Section 8: Respiratory protection - recommended respirators information information was modified.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Odor information was modified.

Section 09: Particle Characteristics N/A information was added.

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: Bioaccumulative potential information information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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

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