



## Safety Data Sheet

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**Version number:** 5.01  
**Supersedes date:** 19/06/2023

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

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ EC-3534 B/A Blue

#### Product Identification Numbers

UU-0096-3052-4

7100176746

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

##### Identified uses

Industrial use.

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

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

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

#### 1.4. Emergency telephone number

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

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

07-6816-8, 39-0253-3

### TRANSPORTATION INFORMATION

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

## KIT LABEL

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

#### CLASSIFICATION:

Skin Corrosion/ Irritation, Category 1C - Skin Corr. 1C; H314

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318

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

Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400

Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

### 2.2. Label elements CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

DANGER.

#### Symbols

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS09 (Environment) |

#### Pictograms



Contains:

bis-[4-(2,3-epoxipropoxy)phenyl]propane; Nitric acid, calcium salt, tetrahydrate; Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-([2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl]oxirane; Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyl)oxy]dipropan-1-amine ; 2,4,6-tris(dimethylaminomethyl)phenol.

#### HAZARD STATEMENTS:

|      |                                                       |
|------|-------------------------------------------------------|
| H314 | Causes severe skin burns and eye damage.              |
| H317 | May cause an allergic skin reaction.                  |
| H336 | May cause drowsiness or dizziness.                    |
| H410 | Very toxic to aquatic life with long lasting effects. |

#### PRECAUTIONARY STATEMENTS

##### Prevention:

|       |                                                 |
|-------|-------------------------------------------------|
| P260G | Do not breathe vapours or dust.                 |
| P273  | Avoid release to the environment.               |
| P280B | Wear protective gloves and eye/face protection. |

##### Response:

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

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

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

**Revision information:**

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

Label: CLP Ingredients - kit components information was modified.



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 39-0253-3  | <b>Version number:</b>  | 7.01       |
| <b>Revision date:</b>  | 15/07/2026 | <b>Supersedes date:</b> | 16/07/2024 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006) as amended by Regulation (EU) 2020/878

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

#### 1.1. Product identifier

3M Scotch-Weld EC-3534 B/A Blue : Part A

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

##### Identified uses

Industrial use.

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

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

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

##### CLASSIFICATION:

Skin Corrosion/ Irritation, Category 1C - Skin Corr. 1C; H314  
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318  
Skin Sensitization, Category 1 - Skin Sens. 1; H317  
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336  
Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400  
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

## 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### Symbols

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS09 (Environment) |

#### Pictograms



#### Ingredients:

| Ingredient                                                                                                                    | Identifier(s) | EC No.    | % by Wt |
|-------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|---------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropyl-1-amine |               | 701-270-9 | 50 - 70 |
| Nitric acid, calcium salt, tetrahydrate                                                                                       | 13477-34-4    | 233-332-1 | 3 - 7   |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                         | 90-72-2       | 202-013-9 | 3 - 7   |

#### HAZARD STATEMENTS:

|      |                                                       |
|------|-------------------------------------------------------|
| H314 | Causes severe skin burns and eye damage.              |
| H317 | May cause an allergic skin reaction.                  |
| H336 | May cause drowsiness or dizziness.                    |
| H410 | Very toxic to aquatic life with long lasting effects. |

#### PRECAUTIONARY STATEMENTS

##### Prevention:

|       |                                                 |
|-------|-------------------------------------------------|
| P260A | Do not breathe vapours.                         |
| P273  | Avoid release to the environment.               |
| P280B | Wear protective gloves and eye/face protection. |

##### Response:

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310               | Immediately call a POISON CENTRE or doctor/physician.                                                                            |

Contains 5% of components with unknown hazards to the aquatic environment.

## 2.3. Other hazards

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

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]</b>                                                                          |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyl oxy)]dipropylamine | (EC-No.) 701-270-9                                                         | 50 - 70  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>STOT SE 3, H336<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |
| Oxide glass chemicals                                                                                                      | (CAS-No.) 65997-17-3<br>(EC-No.) 266-046-0                                 | 10 - 30  | Substance with a national occupational exposure limit                                                                                           |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | (CAS-No.) 13477-34-4<br>(EC-No.) 233-332-1<br>(REACH-No.) 01-2119495093-35 | 3 - 7    | Acute Tox. 4, H302<br>Eye Dam. 1, H318                                                                                                          |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | (CAS-No.) 90-72-2<br>(EC-No.) 202-013-9<br>(REACH-No.) 01-2119560597-27    | 3 - 7    | Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318                                                                                   |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | (CAS-No.) 67762-90-7                                                       | 1 - 5    | Substance not classified as hazardous                                                                                                           |

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

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

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

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

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

**Skin contact**

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**Eye contact**

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

**If swallowed**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO<sub>2</sub> (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

**SECTION 5: Fire-fighting measures****5.1. Extinguishing media**

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

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

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Amine compounds.  
Carbon monoxide  
Carbon dioxide.  
Oxides of nitrogen.

**Condition**

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

**5.3. Advice for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

**6.2. Environmental precautions**

Avoid release to the environment.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

| Ingredient            | Identifier(s) | Agency                  | Limit type                                                                                                 | Additional comments |
|-----------------------|---------------|-------------------------|------------------------------------------------------------------------------------------------------------|---------------------|
| Mineral wool          | 65997-17-3    | Ireland OELs            | TWA(8 hours):5 mg/m3(2 fiber/cc)                                                                           |                     |
| Oxide glass chemicals | 65997-17-3    | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3 |                     |

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

#### Biological limit values

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

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

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

Full face shield.  
Indirect vented goggles.

*Applicable Norms/Standards*

Use eye/face protection conforming to EN 16321

**Skin/hand protection**

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

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

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

**Respiratory protection**

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

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

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

*Applicable Norms/Standards*

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

## SECTION 9: Physical and chemical properties

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

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| <b>Physical state</b>               | Solid.                                      |
| <b>Specific Physical Form:</b>      | Thick paste                                 |
| <b>Colour</b>                       | Off-White                                   |
| <b>Odor</b>                         | Amine                                       |
| <b>Odour threshold</b>              | No data available.                          |
| <b>Melting point/freezing point</b> | No data available.                          |
| <b>Boiling point/boiling range</b>  | No data available.                          |
| <b>Flammability</b>                 | Not applicable.                             |
| <b>Flammable Limits(LEL)</b>        | Not applicable.                             |
| <b>Flammable Limits(UEL)</b>        | Not applicable.                             |
| <b>Flash point</b>                  | >=148 °C                                    |
| <b>Autoignition temperature</b>     | No data available.                          |
| <b>Decomposition temperature</b>    | No data available.                          |
| <b>pH</b>                           | substance/mixture is non-soluble (in water) |
| <b>Kinematic Viscosity</b>          | No data available.                          |

|                                        |                           |
|----------------------------------------|---------------------------|
| Water solubility                       | <i>No data available.</i> |
| Solubility- non-water                  | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure                        | <i>Not applicable.</i>    |
| Density                                | <i>No data available.</i> |
| Relative density                       | 0.6                       |
| Relative Vapour Density                | <i>Not applicable.</i>    |
| Particle Characteristics               | <i>Not applicable.</i>    |

## 9.2. Other information

### 9.2.2 Other safety characteristics

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Strong acids.

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 EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

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

#### Signs and Symptoms of Exposure

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

### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

### Skin contact

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

### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

### Ingestion

Harmful if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen. May cause additional health effects (see below).

### Additional Health Effects:

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

Methemoglobinemia: Signs/symptoms may include headache, dizziness, nausea, difficulty breathing, and generalised weakness. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Additional information:

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

### 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 >300 - =2,000 mg/kg |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropyl-amine | Dermal                         | Rat               | LD50 > 2,000 mg/kg                                    |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropyl-amine | Ingestion                      | Rat               | LD50 > 2,000 mg/kg                                    |
| Oxide glass chemicals                                                                                                      | Dermal                         |                   | LD50 estimated to be > 5,000 mg/kg                    |
| Oxide glass chemicals                                                                                                      | Ingestion                      |                   | LD50 estimated to be 2,000 - 5,000 mg/kg              |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Ingestion                      | Rat               | LD50 >300, <2000 mg/kg                                |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Dermal                         | similar compounds | LD50 > 2,000 mg/kg                                    |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Dermal                         | Rat               | LD50 1,280 mg/kg                                      |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Ingestion                      | Rat               | LD50 1,000 mg/kg                                      |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | Dermal                         | Rabbit            | LD50 > 5,000 mg/kg                                    |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 0.691 mg/l                                     |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | Ingestion                      | Rat               | LD50 > 5,110 mg/kg                                    |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                                                                                        | Species                | Value                     |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropyl-amine | Rat                    | Irritant                  |
| Oxide glass chemicals                                                                                                       | Professional judgement | No significant irritation |
| Nitric acid, calcium salt, tetrahydrate                                                                                     | similar compounds      | No significant irritation |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                       | Rabbit                 | Corrosive                 |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                               | Rabbit                 | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                                                                                                        | Species                | Value                     |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropyl-amine | In vitro data          | Severe irritant           |
| Oxide glass chemicals                                                                                                       | Professional judgement | No significant irritation |
| Nitric acid, calcium salt, tetrahydrate                                                                                     | Rabbit                 | Corrosive                 |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                       | Rabbit                 | Corrosive                 |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                               | Rabbit                 | No significant irritation |

### Skin Sensitisation

| Name                                                                                                                        | Species           | Value          |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropyl-amine | Guinea pig        | Sensitising    |
| Nitric acid, calcium salt, tetrahydrate                                                                                     | similar compounds | Not classified |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                       | Guinea pig        | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                               | Human and animal  | Not classified |

### Respiratory Sensitisation

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

### Germ Cell Mutagenicity

| Name                                                                                                                        | Route    | Value                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropyl-amine | In Vitro | Not mutagenic                                                                |
| Oxide glass chemicals                                                                                                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Nitric acid, calcium salt, tetrahydrate                                                                                     | In Vitro | Not mutagenic                                                                |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                       | In Vitro | Not mutagenic                                                                |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                               | In Vitro | Not mutagenic                                                                |

### Carcinogenicity

| Name                  | Route      | Species         | Value                                                                        |
|-----------------------|------------|-----------------|------------------------------------------------------------------------------|
| Oxide glass chemicals | Inhalation | Multiple animal | Some positive data exist, but the data are not sufficient for classification |

|                                                               |                |         |                                                                              |
|---------------------------------------------------------------|----------------|---------|------------------------------------------------------------------------------|
|                                                               |                | species |                                                                              |
| Siloxanes and Silicones, di-Me, reaction products with silica | 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        |
|----------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------|-------------------|-----------------------|--------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | Ingestion | Not classified for female reproduction | Rat               | NOAEL 1,000 mg/kg/day | premating into lactation |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 1,000 mg/kg/day | 29 days                  |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | Ingestion | Not classified for development         | Rat               | NOAEL 1,000 mg/kg/day | premating into lactation |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Ingestion | Not classified for female reproduction | similar compounds | NOAEL 1,500 mg/kg/day | premating into lactation |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Ingestion | Not classified for male reproduction   | similar compounds | NOAEL 1,500 mg/kg/day | 28 days                  |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Ingestion | Not classified for development         | similar compounds | NOAEL 1,500 mg/kg/day | premating into lactation |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 150 mg/kg/day   | 2 generation             |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Ingestion | Not classified for female reproduction | Rat               | NOAEL 50 mg/kg/day    | 2 generation             |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Ingestion | Not classified for development         | Rabbit            | NOAEL 15 mg/kg/day    | during gestation         |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | Ingestion | Not classified for female reproduction | Rat               | NOAEL 509 mg/kg/day   | 1 generation             |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 497 mg/kg/day   | 1 generation             |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | 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      |
|----------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | Irritation Positive |                        |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Rat                    | NOAEL Not available |                        |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                        |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | Ingestion  | methemoglobinemia                 | Causes damage to organs                                                      | Human                  | NOAEL Not available | environmental exposure |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for                | similar health         | NOAEL Not available |                        |

|        |  |  |                |         |  |  |
|--------|--|--|----------------|---------|--|--|
| phenol |  |  | classification | hazards |  |  |
|--------|--|--|----------------|---------|--|--|

**Specific Target Organ Toxicity - repeated exposure**

| Name                                                                                                                     | Route      | Target Organ(s)                                                                                                                                                                                                                                              | Value          | Species           | Test result           | Exposure Duration     |
|--------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------|-----------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylxy)]dipropylamine | Ingestion  | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system                   | Not classified | Rat               | NOAEL 1,000 mg/kg/day | 29 days               |
| Oxide glass chemicals                                                                                                    | Inhalation | respiratory system                                                                                                                                                                                                                                           | Not classified | Human             | NOAEL not available   | occupational exposure |
| Nitric acid, calcium salt, tetrahydrate                                                                                  | Ingestion  | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system                                                      | Not classified | similar compounds | NOAEL 1,500 mg/kg/day | 28 days               |
| 2,4,6-tris(dimethylaminomethyl) phenol                                                                                   | Dermal     | skin                                                                                                                                                                                                                                                         | Not classified | Rat               | NOAEL 25 mg/kg/day    | 4 weeks               |
| 2,4,6-tris(dimethylaminomethyl) phenol                                                                                   | Dermal     | liver   nervous system   auditory system   hematopoietic system   eyes                                                                                                                                                                                       | Not classified | Rat               | NOAEL 125 mg/kg/day   | 4 weeks               |
| 2,4,6-tris(dimethylaminomethyl) phenol                                                                                   | Ingestion  | heart   endocrine system   hematopoietic system   liver   muscles   nervous system   kidney and/or bladder   respiratory system   vascular system   auditory system   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   eyes | Not classified | Rat               | NOAEL 150 mg/kg/day   | 90 days               |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                            | 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 EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 12.1. Toxicity

No product test data available.

| Material                                                                                                                   | Identifier(s) | Organism         | Type         | Exposure | Test endpoint | Test result  |
|----------------------------------------------------------------------------------------------------------------------------|---------------|------------------|--------------|----------|---------------|--------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Fathead minnow   | Experimental | 96 hours | LL50          | 2.16 mg/l    |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Green algae      | Experimental | 72 hours | EL50          | 0.43 mg/l    |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Water flea       | Experimental | 48 hours | EL50          | 0.57 mg/l    |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Green algae      | Experimental | 72 hours | NOEL          | 0.28 mg/l    |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Activated sludge | Experimental | 3 hours  | EC50          | 410.3 mg/l   |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Green algae      | Experimental | 72 hours | EC50          | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Water flea       | Experimental | 72 hours | EC50          | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Zebra Fish       | Experimental | 96 hours | LC50          | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Green algae      | Experimental | 72 hours | NOEC          | >=1,000 mg/l |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | 13477-34-4    | Guppy            | Estimated    | 96 hours | LC50          | 1,378 mg/l   |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | 13477-34-4    | Fathead minnow   | Estimated    | 30 days  | NOEC          | 58 mg/l      |

|                                                               |            |             |                                                       |          |      |           |
|---------------------------------------------------------------|------------|-------------|-------------------------------------------------------|----------|------|-----------|
| 2,4,6-tris(dimethylaminomethyl)phenol                         | 90-72-2    | N/A         | Experimental                                          | 96 hours | LC50 | 718 mg/l  |
| 2,4,6-tris(dimethylaminomethyl)phenol                         | 90-72-2    | Common Carp | Experimental                                          | 96 hours | LC50 | >100 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol                         | 90-72-2    | Green algae | Experimental                                          | 72 hours | EC50 | 46.7 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol                         | 90-72-2    | Water flea  | Experimental                                          | 48 hours | EC50 | >100 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol                         | 90-72-2    | Green algae | Experimental                                          | 72 hours | NOEC | 6.44 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | N/A         | Data not available or insufficient for classification | N/A      | N/A  | N/A       |

## 12.2. Persistence and degradability

| Material                                                                                                                   | Identifier(s) | Test type                          | Duration | Study Type | Test result  | Protocol                            |
|----------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------|----------|------------|--------------|-------------------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Experimental Biodegradation        | 28 days  | BOD        | 0 %BOD/ThO D | OECD 301F - Manometric respirometry |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Data not available or insufficient | N/A      | N/A        | N/A          | N/A                                 |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | 13477-34-4    | Data not available or insufficient | N/A      | N/A        | N/A          | N/A                                 |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | 90-72-2       | Experimental Biodegradation        | 28 days  | BOD        | 4 %BOD/ThO D | OECD 301D - Closed bottle test      |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | 67762-90-7    | Data not available or insufficient | N/A      | N/A        | N/A          | N/A                                 |

## 12.3 : Bioaccumulative potential

| Material                                                                                                                   | Identifier(s) | Test type                                             | Duration | Study Type             | Test result | Protocol                       |
|----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------|----------|------------------------|-------------|--------------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Modeled Bioconcentration                              |          | Bioaccumulation factor | 42          | Catalogic™                     |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Modeled Bioconcentration                              |          | Log Kow                | 11.7        | Episuite™                      |
| Oxide glass chemicals                                                                                                      | 65997-17-3    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| Nitric acid, calcium salt, tetrahydrate                                                                                    | 13477-34-4    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |
| 2,4,6-tris(dimethylaminomethyl)phenol                                                                                      | 90-72-2       | Experimental Bioconcentration                         |          | Log Kow                | -0.66       | 830.7550 Part.Coef Shake Flask |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                              | 67762-90-7    | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A                            |

**12.4. Mobility in soil**

| Material                                                                                                                   | Identifier(s) | Test type                | Study Type | Test result        | Protocol |
|----------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------|------------|--------------------|----------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diylloxy)]dipropylamine | 701-270-9     | Modeled Mobility in Soil | Koc        | 3,780,000,000 l/kg |          |

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

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

**12.6. Endocrine disrupting properties**

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

**12.7. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

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

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

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

**EU waste code (product as sold)**

08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances

## SECTION 14: Transportation information

|                                      | Ground Transport (ADR)                                                      | Air Transport (IATA)                                                        | Marine Transport (IMDG)                                                                                      |
|--------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>14.1 - UN Number or ID number</b> | UN3259                                                                      | UN3259                                                                      | UN3259                                                                                                       |
| <b>14.2 UN proper shipping name</b>  | AMINES, SOLID, CORROSIVE, N.O.S.(TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL) | AMINES, SOLID, CORROSIVE, N.O.S.(TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL) | AMINES, SOLID, CORROSIVE, N.O.S.(TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL; FATTY ACIDS, C18-UNSATD, DIMERS, |

|                                                                   |                                                                        |                                                                        |                                                                        |
|-------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
|                                                                   |                                                                        |                                                                        | POLYMERS WITH 3,3-(OXYBIS(2,1-ETHANEDIYLOXY))BIS(1-PROPANAMINE))       |
| <b>14.3 Transport hazard class(es)</b>                            | 8                                                                      | 8                                                                      | 8                                                                      |
| <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 Marine Transport in bulk according to IMO instruments</b> | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>Control Temperature</b>                                        | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>Emergency Temperature</b>                                      | No data available.                                                     | No data available.                                                     | No data available.                                                     |
| <b>ADR Classification Code</b>                                    | C8                                                                     | 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

#### 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.

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories                       | Qualifying quantity (tonnes) for the application of |                         |
|-----------------------------------------|-----------------------------------------------------|-------------------------|
|                                         | Lower-tier requirements                             | Upper-tier requirements |
| E1 Hazardous to the Aquatic environment | 100                                                 | 200                     |

Seveso named dangerous substances, Annex 1, Part 2  
None

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

No chemicals listed

#### 15.2. Chemical Safety Assessment

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

### SECTION 16: Other information

#### List of relevant H statements

|      |                                                       |
|------|-------------------------------------------------------|
| H302 | Harmful if swallowed.                                 |
| H314 | Causes severe skin burns and eye damage.              |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H319 | Causes serious eye irritation.                        |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

#### Revision information:

EU Section 14 - Table Data information was added.  
 EU Section 14 - Table Headers information was added.  
 Section 1: Address information was modified.  
 Section 1: E-mail address information was modified.  
 Label: Graphic information was modified.  
 Section 6: Accidental release personal information information was modified.  
 Section 7: Conditions safe storage information was modified.  
 Section 8: Occupational exposure limit table information was modified.  
 Section 08: Personal Protection - Apron Statement information was added.  
 Section 8: Personal Protection - Skin/body information information was deleted.  
 Section 8: Skin protection - protective clothing information information was deleted.  
 Section 9: Vapour pressure value information was added.  
 Section 9: Vapour pressure value information was deleted.  
 Section 14 Classification Code – Main Heading information was deleted.  
 Section 14 Classification Code – Regulation Data information was deleted.  
 Section 14 Control Temperature – Main Heading information was deleted.  
 Section 14 Control Temperature – Regulation Data information was deleted.  
 Section 14 Emergency Temperature – Main Heading information was deleted.  
 Section 14 Emergency Temperature – Regulation Data information was deleted.  
 Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.  
 Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.  
 Section 14 Other Dangerous Goods – Main Heading information was deleted.  
 Section 14 Other Dangerous Goods – Regulation Data information was deleted.  
 Section 14 Packing Group – Main Heading information was deleted.  
 Section 14 Packing Group – Regulation Data information was deleted.  
 Section 14 Proper Shipping Name information was deleted.  
 Section 14 Regulations – Main Headings information was deleted.  
 Section 14 Segregation – Regulation Data information was deleted.  
 Section 14 Segregation Code – Main Heading information was deleted.

Section 14 Special Precautions – Main Heading information was deleted.

Section 14 Special Precautions – Regulation Data information was deleted.

Section 14 Transport in bulk – Regulation Data information was deleted.

Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was deleted.

Section 14 UN Number Column data information was deleted.

Section 14 UN Number information was deleted.

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

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



## Safety Data Sheet

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|                        |            |                         |            |
|------------------------|------------|-------------------------|------------|
| <b>Document group:</b> | 07-6816-8  | <b>Version number:</b>  | 15.01      |
| <b>Revision date:</b>  | 14/08/2024 | <b>Supersedes date:</b> | 12/08/2024 |

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

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ EC-3534 B/A Blue Part B

#### Product Identification Numbers

FJ-9250-8072-5

4010020898

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

##### Identified uses

Part B of two component adhesive

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

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

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

##### CLASSIFICATION:

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 (Acute), Category 1 - Aquatic Acute 1; H400  
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

## 2.2. Label elements

## CLP REGULATION (EC) No 1272/2008

## SIGNAL WORD

WARNING.

## Symbols

GHS07 (Exclamation mark) | GHS09 (Environment) |

## Pictograms



### Ingredients:

| Ingredient                                                                                                                                                                                                                                           | CAS Nbr   | EC No.                     | % by Wt                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\} methyl)oxirane bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | 701-263-0<br><br>216-823-5 | 30 - 60<br><br>20 - 40 |

**HAZARD STATEMENTS:**

|      |                                                       |
|------|-------------------------------------------------------|
| H315 | Causes skin irritation.                               |
| H319 | Causes serious eye irritation.                        |
| H317 | May cause an allergic skin reaction.                  |
| H410 | Very 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.                                                                                                                |

Contains 2% 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]                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\} methyl)oxirane | (EC-No.) 701-263-0                                                        | 30 - 60 | Skin Irrit. 2, H315<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                      | (CAS-No.) 1675-54-3<br>(EC-No.) 216-823-5<br>(REACH-No.) 01-2119456619-26 | 20 - 40 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411             |
| Oxide glass chemicals                                                                                                                                                                                        | (CAS-No.) 65997-17-3<br>(EC-No.) 266-046-0                                | 15 - 30 | Substance with a national occupational exposure limit                                                  |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                                | (CAS-No.) 67762-90-7                                                      | 1 - 5   | Substance not classified as hazardous                                                                  |

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

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

### Specific Concentration Limits

| Ingredient                              | Identifier(s)                             | Specific Concentration Limits                                 |
|-----------------------------------------|-------------------------------------------|---------------------------------------------------------------|
| 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 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**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Aldehydes.  
Carbon monoxide  
Carbon dioxide.  
Hydrogen Chloride

**Condition**

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

**5.3. Advice for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Ventilate the area with fresh air. 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.

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

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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 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 |
|-----------------------------------------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------------------------------------|---------------------|
| Mineral wool, with the exception of those specified elsewhere in this Annex | 65997-17-3 | Ireland OELs            | TWA(8 hours):5 mg/m3(2 fiber/cc)                                                                           |                     |
| Oxide glass chemicals                                                       | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3 |                     |

Ireland OELs : Ireland. OELs

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

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

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

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

Safety glasses with side shields.

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:

| 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

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>                         | Solid.                                      |
| <b>Specific Physical Form:</b>                | Paste Thick paste                           |
| <b>Colour</b>                                 | Blue                                        |
| <b>Odor</b>                                   | Light Epoxy                                 |
| <b>Odour threshold</b>                        | No data available.                          |
| <b>Melting point/freezing point</b>           | No data available.                          |
| <b>Boiling point/boiling range</b>            | No data available.                          |
| <b>Flammability</b>                           | Not applicable.                             |
| <b>Flammable Limits(LEL)</b>                  | Not applicable.                             |
| <b>Flammable Limits(UEL)</b>                  | Not applicable.                             |
| <b>Flash point</b>                            | ≥150 °C [Test Method:Closed Cup]            |
| <b>Autoignition temperature</b>               | No data available.                          |
| <b>Decomposition temperature</b>              | No data available.                          |
| <b>pH</b>                                     | substance/mixture is non-soluble (in water) |
| <b>Kinematic Viscosity</b>                    | No data available.                          |
| <b>Water solubility</b>                       | Nil                                         |
| <b>Solubility- non-water</b>                  | No data available.                          |
| <b>Partition coefficient: n-octanol/water</b> | No data available.                          |
| <b>Vapour pressure</b>                        | Not applicable.                             |

|                          |                        |
|--------------------------|------------------------|
| Density                  | No data available.     |
| Relative density         | 0.6 [Ref Std: WATER=1] |
| Relative Vapour Density  | Not applicable.        |
| Particle Characteristics | Not applicable.        |

## 9.2. Other information

### 9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

Not applicable.

Percent volatile

<=1 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Amines.

Strong acids.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

#### Substance

#### Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

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

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

#### Signs and Symptoms of Exposure

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

#### Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge,

headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

#### Skin contact

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

#### Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion

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                                                                                                                                                                                          | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE >5 - =12.5 mg/l |
| Overall product                                                                                                                                                                                          | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg    |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl oxirane | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl oxirane | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                  | Dermal                         | Rat     | LD50 > 1,600 mg/kg                                |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                  | Ingestion                      | Rat     | LD50 > 1,000 mg/kg                                |
| Oxide glass chemicals                                                                                                                                                                                    | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg                |
| Oxide glass chemicals                                                                                                                                                                                    | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg          |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                            | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                            | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                 |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                            | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                                                                                                                                                                                     | Species                | Value                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl oxirane | Rabbit                 | Irritant                  |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                  | Rabbit                 | Mild irritant             |
| Oxide glass chemicals                                                                                                                                                                                    | Professional judgement | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                            | Rabbit                 | No significant irritation |

#### Serious Eye Damage/Irritation

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|                                                                                                                                                                                                             |                        |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|
|                                                                                                                                                                                                             |                        |                           |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | Rabbit                 | No significant irritation |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                     | Rabbit                 | Moderate irritant         |
| Oxide glass chemicals                                                                                                                                                                                       | Professional judgement | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                               | Rabbit                 | No significant irritation |

**Skin Sensitisation**

| Name                                                                                                                                                                                                        | Species                 | Value          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | Multiple animal species | Sensitising    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                     | Human and animal        | Sensitising    |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                               | 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                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | In vivo  | Not mutagenic                                                                |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 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 |
| Oxide glass chemicals                                                                                                                                                                                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                               | 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 |
| Oxide glass chemicals                                         | Inhalation     | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | 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 |
|-----------------------------------------|-----------|----------------------------------------|---------|---------------------|-------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation      |

|                                                               |           |                                        |        |                       |                      |
|---------------------------------------------------------------|-----------|----------------------------------------|--------|-----------------------|----------------------|
| 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         |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat    | NOAEL 509 mg/kg/day   | 1 generation         |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 497 mg/kg/day   | 1 generation         |
| Siloxanes and Silicones, di-Me, reaction products with silica | 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 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name                                                                                                                                                                                                        | Route      | Target Organ(s)                                                                                                                                                                                                           | Value          | Species | Test result           | Exposure Duration     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-----------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | Ingestion  | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat     | NOAEL 250 mg/kg/day   | 13 weeks              |
| 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               |
| Oxide glass chemicals                                                                                                                                                                                       | Inhalation | respiratory system                                                                                                                                                                                                        | Not classified | Human   | NOAEL not available   | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                               | 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 EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 12.1. Toxicity

No product test data available.

| Material                                                                                                                                                                                                    | CAS #     | Organism         | Type               | Exposure | Test endpoint | Test result |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|--------------------|----------|---------------|-------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Green algae      | Experimental       | 72 hours | EC50          | >1.8 mg/l   |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Rainbow trout    | Experimental       | 96 hours | LC50          | 0.55 mg/l   |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Water flea       | Experimental       | 48 hours | EC50          | 1.6 mg/l    |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Water flea       | Analogous Compound | 21 days  | NOEC          | 0.3 mg/l    |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Activated sludge | Analogous Compound | 3 hours  | IC50          | >100 mg/l   |

|                                                                                                                                                 |            |                  |                                                       |          |       |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------------------------------------------|----------|-------|--------------|
| e)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane |            |                  |                                                       |          |       |              |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Activated sludge | Analogous Compound                                    | 3 hours  | IC50  | >100 mg/l    |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Rainbow trout    | Estimated                                             | 96 hours | LC50  | 2 mg/l       |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Water flea       | Estimated                                             | 48 hours | EC50  | 1.8 mg/l     |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Green algae      | Experimental                                          | 72 hours | ErC50 | >11 mg/l     |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Green algae      | Experimental                                          | 72 hours | NOEC  | 4.2 mg/l     |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                       | 1675-54-3  | Water flea       | Experimental                                          | 21 days  | NOEC  | 0.3 mg/l     |
| Oxide glass chemicals                                                                                                                           | 65997-17-3 | Green algae      | Experimental                                          | 72 hours | EC50  | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                                           | 65997-17-3 | Water flea       | Experimental                                          | 72 hours | EC50  | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                                           | 65997-17-3 | Zebra Fish       | Experimental                                          | 96 hours | LC50  | >1,000 mg/l  |
| Oxide glass chemicals                                                                                                                           | 65997-17-3 | Green algae      | Experimental                                          | 72 hours | NOEC  | >=1,000 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                   | 67762-90-7 | N/A              | Data not available or insufficient for classification | N/A      | N/A   | N/A          |

## 12.2. Persistence and degradability

| Material                                                                                                                                                                                                    | CAS Nbr   | Test type                     | Duration | Study Type                  | Test result       | Protocol                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------|----------|-----------------------------|-------------------|-------------------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Experimental Biodegradation   | 28 days  | BOD                         | 0 %BOD/ThO D      | EC C.4.E Closed Bottle Test         |
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-(\{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy\}methyl)oxirane | 701-263-0 | Analogous Compound Hydrolysis |          | Hydrolytic half-life (pH 7) | 86 hours (t 1/2)  | OECD 111 Hydrolysis func of pH      |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                                                                                   | 1675-54-3 | Experimental Biodegradation   | 28 days  | BOD                         | 5 %BOD/COD        | OECD 301F - Manometric respirometry |
| bis-[4-(2,3-epoxipropoxy)phenyl]propylene                                                                                                                                                                   | 1675-54-3 | Experimental Hydrolysis       |          | Hydrolytic half-life (pH 7) | 117 hours (t 1/2) | OECD 111 Hydrolysis func of pH      |

|                                                               |            |                                    |     |     |     |     |
|---------------------------------------------------------------|------------|------------------------------------|-----|-----|-----|-----|
| Oxide glass chemicals                                         | 65997-17-3 | Data not available or insufficient | N/A | N/A | N/A | N/A |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | 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                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------|----------|------------|-------------|------------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-[(4-(oxiran-2-ylmethoxy)benzyl)phenoxy]methyl oxirane | 701-263-0  | Experimental Bioconcentration                         |          | Log Kow    | 3.6         | OECD 117 log Kow HPLC method |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                | 1675-54-3  | Experimental Bioconcentration                         |          | Log Kow    | 3.242       | OECD 117 log Kow HPLC method |
| Oxide glass chemicals                                                                                                                                                                                  | 65997-17-3 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                          |
| Siloxanes and Silicones, di-Me, reaction products with silica                                                                                                                                          | 67762-90-7 | Data not available or insufficient for classification | N/A      | N/A        | N/A         | N/A                          |

### 12.4. Mobility in soil

| Material                                                                                                                                                                                               | Cas No.   | Test type                     | Study Type | Test result | Protocol                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------|------------|-------------|--------------------------------|
| Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-[(4-(oxiran-2-ylmethoxy)benzyl)phenoxy]methyl oxirane | 701-263-0 | Experimental Mobility in Soil | Koc        | 4,460 l/kg  | OECD 121 Estim. of Koc by HPLC |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane                                                                                                                                                                | 1675-54-3 | Modeled Mobility in Soil      | Koc        | 450 l/kg    | Episuite™                      |

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

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

### 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

|                                                                   | Ground Transport<br>(ADR)                                                                                                                          | Air Transport (IATA)                                                                                                                               | Marine Transport<br>(IMDG)                                                                                                                         |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.1 UN number or ID number</b>                                | UN3077                                                                                                                                             | UN3077                                                                                                                                             | UN3077                                                                                                                                             |
| <b>14.2 UN proper shipping name</b>                               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER; EPICHLOROHYDRIN-PHENOL-FORMALDEHYDE RESIN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER; EPICHLOROHYDRIN-PHENOL-FORMALDEHYDE RESIN) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER; EPICHLOROHYDRIN-PHENOL-FORMALDEHYDE RESIN) |
| <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 Marine Transport in bulk according to IMO instruments</b> | No data available.                                                                                                                                 | No data available.                                                                                                                                 | No data available.                                                                                                                                 |

|                                |                    |                    |                    |
|--------------------------------|--------------------|--------------------|--------------------|
| <b>Control Temperature</b>     | No data available. | No data available. | No data available. |
| <b>Emergency Temperature</b>   | No data available. | No data available. | No data available. |
| <b>ADR Classification Code</b> | M7                 | 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><b>Ingredient</b></u>                | <u><b>CAS Nbr</b></u> | <u><b>Classification</b></u> | <u><b>Regulation</b></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 through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

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

Restriction status: listed in REACH Annex XVII

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

#### Global inventory status

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

#### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

|                   |                                                     |
|-------------------|-----------------------------------------------------|
| Hazard Categories | Qualifying quantity (tonnes) for the application of |
|-------------------|-----------------------------------------------------|

|                                         | Lower-tier requirements | Upper-tier requirements |
|-----------------------------------------|-------------------------|-------------------------|
| E1 Hazardous to the Aquatic environment | 100                     | 200                     |

Seveso named dangerous substances, Annex 1, Part 2  
None

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

No chemicals listed

#### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

#### List of relevant H statements

|      |                                                       |
|------|-------------------------------------------------------|
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

#### Revision information:

Section 1: Product identification numbers information was added.

Section 01: SAP Material Numbers information was added.

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

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