



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
| <b>Document group:</b>                | 05-6784-2         | <b>Version number:</b>  | 19.02      |
| <b>Revision date:</b>                 | 12/07/2019        | <b>Supersedes date:</b> | 13/12/2018 |
| <b>Transportation version number:</b> | 1.00 (01/04/2011) |                         |            |

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 Epoxy Adhesive DP105 Clear

#### Product Identification Numbers

UU-0101-3127-2

7100200485

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

##### Identified uses

Structural adhesive.

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

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

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

**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:**

05-6781-8, 05-6783-4

### TRANSPORTATION INFORMATION

UU-0101-3127-2

Not hazardous for transportation

## KIT LABEL

### 2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

#### CLASSIFICATION:

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

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

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

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

#### SIGNAL WORD

WARNING.

#### Symbols:

GHS07 (Exclamation mark) |

#### Pictograms



#### Contains:

Triethylenetetramine; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulphide

#### HAZARD STATEMENTS:

H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

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.

##### Disposal:

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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

**<=125 ml Hazard statements**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**<=125 ml Precautionary statements**

**Prevention:**

P280E Wear protective gloves.

**Response:**

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

**Revision information:**

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

Label: CLP Ingredients - kit components information was modified.

Section 1: Product identification numbers information was modified.

Section 01: SAP Material Numbers information was modified.



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
| <b>Document group:</b>                | 05-6783-4         | <b>Version number:</b>  | 20.00      |
| <b>Revision date:</b>                 | 31/07/2019        | <b>Supersedes date:</b> | 13/12/2018 |
| <b>Transportation version number:</b> | 1.00 (23/03/2011) |                         |            |

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 Epoxy Adhesive DP105 Clear, Part A

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

##### Identified uses

Structural adhesive.

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

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

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

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

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

##### SIGNAL WORD

WARNING.

##### Symbols:

GHS07 (Exclamation mark) |

**Pictograms**



**Ingredients:**

| Ingredient  | CAS Nbr    | EC No.    | % by Wt |
|---|------------|-----------|---------|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5 | 701-196-7 | 90 - 99 |
| Triethylenetetramine  | 112-24-3   | 203-950-6 | < 3     |

**HAZARD STATEMENTS:**

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

**PRECAUTIONARY STATEMENTS**

**Prevention:**

- P280E Wear protective gloves.

**Response:**

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

**Disposal:**

- P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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

**<=125 ml Hazard statements**

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

**<=125 ml Precautionary statements**

**Prevention:**

- P280E Wear protective gloves.

**Response:**

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

**Notes on labelling**

All or part of the classification is based on toxicity test data.  
Skin 2, Eye 1 removed based on test data.

**2.3. Other hazards**

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A**

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

**SECTION 3: Composition/information on ingredients**

| Ingredient  | CAS Nbr      | EC No.    | REACH Registration No. | % by Wt | Classification  |
|---|--------------|-----------|------------------------|---------|---|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | 701-196-7 |                        | 90 - 99 | Aquatic Chronic 3, H412<br>Skin Sens. 1B, H317  |
| Propyleneoxide modified polyamine   | Trade Secret |           |                        | 1 - 10  | Substance not classified as hazardous   |
| Triethylenetetramine  | 112-24-3     | 203-950-6 |                        | < 3     | Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)   | 3033-62-3    | 221-220-5 |                        | < 3     | Skin Corr. 1A, H314<br>Acute Tox. 3, H331; Acute Tox. 3, H311; Acute Tox. 4, H302     |

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**

No need for first aid is anticipated.

**Skin contact**

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

**Eye contact**

No need for first aid is anticipated.

**If swallowed**

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

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

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

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

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

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

#### **Substance**

Carbon monoxide.  
Carbon dioxide.  
Oxides of sulphur.  
Toxic vapour, gas, particulate.

#### **Condition**

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

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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**

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

### **6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

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.

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

No special storage requirements.

### **7.3. Specific end use(s)**

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

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

### Occupational exposure limits

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

### Biological limit values

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

## 8.2. Exposure controls

### 8.2.1. Engineering controls

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

None required.

#### Skin/hand protection

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

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

#### Applicable Norms/Standards

Use gloves tested to EN 374

#### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state  
Colour

Liquid.  
Colourless

#### Odor

Mercaptan

#### Odour threshold

No data available.

#### pH

Not applicable.

#### Boiling point/boiling range

$\geq 93.3$  °C

#### Melting point

Not applicable.

#### Flammability (solid, gas)

Not applicable.

#### Explosive properties

Not classified

#### Oxidising properties

Not classified

#### Flash point

$\geq 93.3$  °C [Test Method: Closed Cup]

#### Autoignition temperature

No data available.

#### Flammable Limits(LEL)

No data available.

#### Flammable Limits(UEL)

No data available.



## 3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A

|  |                                   |
|--|-----------------------------------|
| Vapour pressure                        | ≤13.3 Pa                          |
| Relative density                       | 1.15 [Ref Std: WATER=1]           |
| Water solubility                       | Nil                               |
| Solubility- non-water                  | No data available.                |
| Partition coefficient: n-octanol/water | No data available.                |
| Evaporation rate                       | No data available.                |
| Vapour density                         | No data available.                |
| Decomposition temperature              | No data available.                |
| Viscosity                              | 8,000 - 16,000 mPa-s [@ 22.8 °C ] |
| Density                                | 1.15 g/ml                         |

### 9.2. Other information

|                               |                    |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Molecular weight              | No data available. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

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

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not agree with the 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 3M assessments.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A**

No known health effects.

**Skin contact**

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

**Eye contact**

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

**Ingestion**

May be harmful if swallowed.

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

**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  | Inhalation-Vapour(4 hr)     |         | No data available; calculated ATE >50 mg/l            |
| Overall product  | Ingestion                   |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Dermal                      | Rabbit  | LD50 > 10,200 mg/kg                                   |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Ingestion                   | Rat     | LD50 2,600 mg/kg                                      |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)  | Dermal                      | Rabbit  | LD50 238 mg/kg  |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)  | Inhalation-Vapour (4 hours) | Rat     | LC50 2.2 mg/l   |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)  | Ingestion                   | Rat     | LD50 570 mg/kg  |
| Triethylenetetramine   | Dermal                      | Rabbit  | LD50 550 mg/kg  |
| Triethylenetetramine   | Ingestion                   | Rat     | LD50 2,500 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name   | Species | Value                     |
|--|---------|---------------------------|
| Overall product  | Rabbit  | Mild irritant             |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Rabbit  | No significant irritation |
| Triethylenetetramine   | Rabbit  | Corrosive                 |

**Serious Eye Damage/Irritation**

| Name   | Species | Value         |
|--|---------|---------------|
| Overall product  | Rabbit  | Mild irritant |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Rabbit  | Mild irritant |
| Triethylenetetramine   | Rabbit  | Corrosive     |

**Skin Sensitisation**

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

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A**

|   |            |             |
|---|------------|-------------|
|   |            |             |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Mouse      | Sensitising |
| Triethylenetetramine  | Guinea pig | Sensitising |

**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         |
|---|----------|---------------|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | In Vitro | Not mutagenic |

**Carcinogenicity**

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

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

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

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

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

**Specific Target Organ Toxicity - repeated exposure**

| Name  | Route     | Target Organ(s)  | Value  | Species | Test result           | Exposure Duration |
|---|-----------|--|--|---------|-----------------------|-------------------|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Ingestion | hematopoietic system   | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 75 mg/kg/day    | 90 days           |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Ingestion | liver  | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 250 mg/kg/day   | 90 days           |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | Ingestion | endocrine system   heart   skin   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified   | Rat     | NOAEL 1,000 mg/kg/day | 90 days           |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information**

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A**

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 |
|---|--------------|-------------|---|----------|---------------|-------------|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Water flea  | Experimental  | 48 hours | EC50          | 12 mg/l     |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Zebra Fish  | Experimental  | 96 hours | LC50          | 87 mg/l     |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Green algae | Experimental  | 72 hours | EC50          | >733 mg/l   |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Water flea  | Experimental  | 21 days  | NOEC          | 3.5 mg/l    |
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Green algae | Experimental  | 72 hours | NOEC          | 338 mg/l    |
| Propyleneoxide modified polyamine   | Trade Secret |             | Data not available or insufficient for classification |          |               |             |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)   | 3033-62-3    | Zebra Fish  | Experimental  | 96 hours | LC50          | 131.2 mg/l  |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)   | 3033-62-3    | Green algae | Experimental  | 72 hours | EC50          | 24 mg/l     |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)   | 3033-62-3    | Water flea  | Experimental  | 48 hours | EC50          | 102 mg/l    |

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A**

|   |           |             |              |          |                          |            |
|---|-----------|-------------|--------------|----------|--------------------------|------------|
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine) | 3033-62-3 | Green algae | Experimental | 72 hours | Effect Concentration 10% | 5 mg/l     |
| Triethylenetetramine                          | 112-24-3  | Guppy       | Experimental | 96 hours | LC50                     | 570 mg/l   |
| Triethylenetetramine                          | 112-24-3  | Green Algae | Experimental | 72 hours | EC50                     | 27.4 mg/l  |
| Triethylenetetramine                          | 112-24-3  | Water flea  | Experimental | 48 hours | EC50                     | 37.4 mg/l  |
| Triethylenetetramine                          | 112-24-3  | Water flea  | Experimental | 21 days  | NOEC                     | 2.86 mg/l  |
| Triethylenetetramine                          | 112-24-3  | Green Algae | Experimental | 72 hours | NOEC                     | 0.468 mg/l |

**12.2. Persistence and degradability**

| Material   | CAS Nbr      | Test type                     | Duration | Study Type    | Test result                       | Protocol                          |
|--|--------------|-------------------------------|----------|---------------|-----------------------------------|-----------------------------------|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Experimental Biodegradation   | 28 days  | CO2 evolution | 5 %CO2 evolution/THC O2 evolution | OECD 301B - Modified sturm or CO2 |
| Propyleneoxide modified polyamine  | Trade Secret | Data not availbl-insufficient |          |               | N/A                               |                                   |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)  | 3033-62-3    | Experimental Biodegradation   | 28 days  | BOD           | 0 % BOD/ThBOD                     | OECD 301C - MITI test (I)         |
| Triethylenetetramine   | 112-24-3     | Experimental Biodegradation   | 20 days  | BOD           | 0 % BOD/ThBOD                     | OECD 301D - Closed bottle test    |

**12.3 : Bioaccumulative potential**

| Material   | Cas No.      | Test type   | Duration | Study Type             | Test result | Protocol   |
|--|--------------|---|----------|------------------------|-------------|--|
| alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediy)], ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5   | Estimated Bioconcentration                            |          | Log Kow                | >1.2        | Estimated: Octanol-water partition coefficient     |
| Propyleneoxide modified polyamine  | Trade Secret | Data not available or insufficient for classification | N/A      | N/A                    | N/A         | N/A  |
| N,N,N',N'-Tetramethyl-2,2'-oxybis(ethylamine)  | 3033-62-3    | Experimental Bioconcentration                         |          | Log Kow                | -0.339      | Other methods                                      |
| Triethylenetetramine   | 112-24-3     | Experimental BCF-Carp                                 | 42 days  | Bioaccumulation factor | <5.0        | OECD 305E - Bioaccumulation flow-through fish test |

**12.4. Mobility in soil**

Please contact manufacturer for more details

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

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

**12.6. Other adverse effects**

No information available.

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

## 3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part A

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

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

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

### EU waste code (product as sold)

|           |  |
|-----------|--|
| 08 04 09* | Waste adhesives and sealants containing organic solvents or other dangerous substances |
| 20 01 27* | Paint, inks, adhesives and resins containing dangerous substances                      |

## SECTION 14: Transportation information

ADR/IMDG/IATA: Not restricted for transport.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

### List of relevant H statements

|      |  |
|------|--|
| H302 | Harmful if swallowed.                              |
| H311 | Toxic in contact with skin.                        |
| H314 | Causes severe skin burns and eye damage.           |
| H317 | May cause an allergic skin reaction.               |
| H331 | Toxic if inhaled.                                  |
| H412 | Harmful to aquatic life with long lasting effects. |

### Revision information:

Section 2: <125ml Hazard - Environmental information was added.

CLP: Ingredient table information was modified.

Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was added.

Label: CLP Precautionary - Disposal information was added.

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

Section 8: Appropriate Engineering controls information was modified.

Section 8: glove data value information was deleted.

Section 8: glove data value information was modified.

Section 8: Personal Protection - Skin/hand information information was modified.

Section 09: Color information was added.

Section 09: Odor information was added.

Sections 3 and 9: Odour, colour, grade information information was deleted.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Biocumulative potential information information was modified.

Section 15: Regulations - Inventories 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.

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



## Safety Data Sheet

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|                                       |                   |                         |            |
|---------------------------------------|-------------------|-------------------------|------------|
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| <b>Transportation version number:</b> | 1.00 (23/03/2011) |                         |            |

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 Epoxy Adhesive DP105 Clear, Part B

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

##### Identified uses

Structural adhesive.

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

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

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

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

CLP REGULATION (EC) No 1272/2008

##### CLASSIFICATION:

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

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

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

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

#### 2.2. Label elements

CLP REGULATION (EC) No 1272/2008

##### SIGNAL WORD

WARNING.



**Symbols:**

GHS07 (Exclamation mark) |

**Pictograms**



**Ingredients:**

| Ingredient   | CAS Nbr    | EC No.    | % by Wt |
|--|------------|-----------|---------|
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | 500-070-7 | 70 - 80 |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                      | 25068-38-6 | 500-033-5 | 20 - 24 |

**HAZARD STATEMENTS:**

|      |  |
|------|--|
| H319 | Causes serious eye irritation.                     |
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

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.

**Disposal:**

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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

**<=125 ml Hazard statements**

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

**<=125 ml Precautionary statements**

**Prevention:**

P280E Wear protective gloves.

**Response:**

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

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B****2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients**

| Ingredient   | CAS Nbr    | EC No.    | REACH Registration No. | % by Wt   | Classification   |
|--|------------|-----------|------------------------|-----------|--|
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | 500-070-7 |                        | 70 - 80   | Skin Sens. 1, H317; Aquatic Chronic 3, H412  |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                      | 25068-38-6 | 500-033-5 | 01-2119456619-26       | 20 - 24   | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 2, H411 |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane   | 2530-83-8  | 219-784-2 | 01-2119513212-58       | 0.5 - 1.5 | Eye Dam. 1, H318   |

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

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

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

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

**Skin contact**

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

**Eye contact**

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

**If swallowed**

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

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

In case of fire: Use a 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.  
Hydrocarbons.  
Carbon monoxide.  
Carbon dioxide.  
Hydrogen Chloride  
Ketones.  
Toxic vapour, gas, particulate.

### Condition

During combustion.  
During combustion.  
During combustion.  
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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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 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**

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B**

**8.1 Control parameters**

**Occupational exposure limits**

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

**Biological limit values**

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

**Derived no effect level (DNEL)**

| Ingredient  | Degradation Product | Population | Human exposure pattern                                     | DNEL                   |
|---|---------------------|------------|--|------------------------|
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane                              |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 21 mg/kg bw/d          |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane                              |                     | Worker     | Dermal, Short-term exposure, Systemic effects              | 21 mg/kg bw/d          |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane                              |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 147 mg/m <sup>3</sup>  |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane                              |                     | Worker     | Inhalation, Short-term exposure, Systemic effects          | 147 mg/m <sup>3</sup>  |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |                     | Worker     | Dermal, Long-term exposure (8 hours), Systemic effects     | 8.3 mg/kg bw/d         |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |                     | Worker     | Dermal, Short-term exposure, Systemic effects              | 8.3 mg/kg              |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |                     | Worker     | Inhalation, Long-term exposure (8 hours), Systemic effects | 12.3 mg/m <sup>3</sup> |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |                     | Worker     | Inhalation, Short-term exposure, Systemic effects          | 12.3 mg/m <sup>3</sup> |

**Predicted no effect concentrations (PNEC)**

| Ingredient                   | Degradation Product | Compartment       | PNEC            |
|------------------------------|---------------------|-------------------|-----------------|
| [3-(2,3-Epoxypropoxy)propyl] |                     | Agricultural soil | 0.13 mg/kg d.w. |

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B**

|  |  |                                |                 |
|--|--|--------------------------------|-----------------|
| trimethoxysilane   |  |                                |                 |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              |  | Freshwater                     | 1 mg/l          |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              |  | Freshwater sediments           | 0.79 mg/kg d.w. |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              |  | Intermittent releases to water | 1 mg/l          |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              |  | Marine water                   | 0.1 mg/l        |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              |  | Sewage Treatment Plant         | 10 mg/l         |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Freshwater                     | 0.003 mg/l      |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Freshwater sediments           | 0.5 mg/kg d.w.  |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Intermittent releases to water | 0.013 mg/l      |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Marine water                   | 0.0003 mg/l     |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Marine water sediments         | 0.5 mg/kg d.w.  |
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) |  | Sewage Treatment Plant         | 10 mg/l         |

**8.2. Exposure controls**

In addition, refer to the annex for more information.

### 8.2.1. Engineering controls

No engineering controls required.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Indirect vented goggles.

#### Applicable Norms/Standards

Use eye protection conforming to EN 166

#### Skin/hand protection

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

#### Respiratory protection

None required.

### 8.2.3. Environmental exposure controls

Refer to Annex

## SECTION 9: Physical and chemical properties

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

|                             |   |
|-----------------------------|---|
| Physical state              | Liquid.   |
| Specific Physical Form:     | Viscous Liquid  |
| Appearance/Odour            | clear, slight epoxy odour                               |
| Odour threshold             | No data available.                                      |
| pH                          | Not applicable.   |
| Boiling point/boiling range | $\geq 115.6$ °C   |
| Melting point               | Not applicable.   |
| Flammability (solid, gas)   | Not applicable.   |
| Explosive properties        | Not classified  |
| Oxidising properties        | Not classified  |
| Flash point                 | $\geq 115.6$ °C [Test Method:Pensky-Martens Closed Cup] |
| Autoignition temperature    | No data available.                                      |
| Flammable Limits(LEL)       | No data available.                                      |
| Flammable Limits(UEL)       | No data available.                                      |
| Vapour pressure             | $\leq 186,158.4$ Pa [@ 55 °C ]                          |
| Relative density            | 1.11 [Ref Std:WATER=1]                                  |

## 3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B

|   |                           |
|---|---------------------------|
| <b>Water solubility</b>                       | Nil                       |
| <b>Solubility- non-water</b>                  | <i>No data available.</i> |
| <b>Partition coefficient: n-octanol/water</b> | <i>No data available.</i> |
| <b>Evaporation rate</b>                       | <i>No data available.</i> |
| <b>Vapour density</b>                         | <i>No data available.</i> |
| <b>Decomposition temperature</b>              | <i>No data available.</i> |
| <b>Viscosity</b>                              | 1,000 - 5,000 mPa-s       |
| <b>Density</b>                                | 1.11 g/ml                 |

### 9.2. Other information

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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Strong 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 3M assessments.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### Inhalation

No health effects are expected.

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B****Skin contact**

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

**Eye contact**

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

**Ingestion**

May be harmful if swallowed.

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

**Toxicological Data**

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

**Acute Toxicity**

| Name  | Route                          | Species | Value   |
|---|--------------------------------|---------|---|
| Overall product   | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg        |
| Overall product   | Ingestion                      |         | No data available; calculated ATE 2,000 - 5,000 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Dermal                         | Rat     | LD50 > 1,600 mg/kg                                    |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Ingestion                      | Rat     | LD50 > 1,000 mg/kg                                    |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Dermal                         | Rabbit  | LD50 4,000 mg/kg                                      |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.3 mg/l                                       |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Ingestion                      | Rat     | LD50 7,010 mg/kg                                      |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species | Value         |
|---|---------|---------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Rabbit  | Mild irritant |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Rabbit  | Mild irritant |

**Serious Eye Damage/Irritation**

| Name  | Species | Value             |
|---|---------|-------------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Rabbit  | Moderate irritant |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Rabbit  | Corrosive         |

**Skin Sensitisation**

| Name  | Species          | Value          |
|---|------------------|----------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Human and animal | Sensitising    |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Guinea pig       | Not classified |

**Respiratory Sensitisation**

| Name  | Species | Value          |
|---|---------|----------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Human   | Not classified |



**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B**

**Germ Cell Mutagenicity**

| Name  | Route    | Value  |
|---|----------|--|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | In vivo  | Not mutagenic  |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | In vivo  | Not mutagenic  |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name  | Route  | Species | Value  |
|---|--------|---------|--|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Dermal | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Dermal | Mouse   | Not carcinogenic   |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name  | Route     | Value                                  | Species | Test result           | Exposure Duration    |
|---|-----------|--|---------|-----------------------|----------------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day   | 2 generation         |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day   | 2 generation         |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Dermal    | Not classified for development         | Rabbit  | NOAEL 300 mg/kg/day   | during organogenesis |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Ingestion | Not classified for development         | Rat     | NOAEL 750 mg/kg/day   | 2 generation         |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | 1 generation         |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 1 generation         |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                             | Ingestion | Not classified for development         | Rat     | NOAEL 3,000 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name  | Route  | Target Organ(s) | Value          | Species | Test result           | Exposure Duration |
|---|--------|-----------------|----------------|---------|-----------------------|-------------------|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Dermal | liver           | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years           |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER (MW unknown or <=700) | Dermal | nervous system  | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks          |

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|   |           |   |                |     |                       |         |
|---|-----------|---|----------------|-----|-----------------------|---------|
| unknown or <=700)   |           |   |                |     |                       |         |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) | 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 |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane                              | Ingestion | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

#### Aspiration Hazard

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

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

## 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 |
|--|------------|---------------|--------------|----------|---------------|-------------|
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | Green algae   | Experimental | 72 hours | EC50          | >100 mg/l   |
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | Rainbow trout | Experimental | 96 hours | LC50          | 11.5 mg/l   |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                      | 25068-38-6 | Water flea    | Estimated    | 48 hours | LC50          | 0.95 mg/l   |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                      | 25068-38-6 | Rainbow trout | Experimental | 96 hours | LC50          | 1.2 mg/l    |
| 4,4'-ISOPROPYLIDENEDIPHENOL-   | 25068-38-6 | Green Algae   | Experimental | 72 hours | EC50          | >11 mg/l    |

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|   |            |                 |              |          |      |            |
|---|------------|-----------------|--------------|----------|------|------------|
| EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                               |            |                 |              |          |      |            |
| 4,4'-ISOPROPYLIDENEDI PHENOL- EPICHLOROHYDRIN POLYMER (MW unknown or <=700) | 25068-38-6 | Green Algae     | Experimental | 72 hours | NOEC | 4.2 mg/l   |
| 4,4'-ISOPROPYLIDENEDI PHENOL- EPICHLOROHYDRIN POLYMER (MW unknown or <=700) | 25068-38-6 | Water flea      | Experimental | 21 days  | NOEC | 0.3 mg/l   |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                               | 2530-83-8  | Common Carp     | Experimental | 96 hours | LC50 | 55 mg/l    |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                               | 2530-83-8  | Crustacea other | Experimental | 48 hours | LC50 | 324 mg/l   |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                               | 2530-83-8  | Green algae     | Experimental | 96 hours | EC50 | 350 mg/l   |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                               | 2530-83-8  | Water flea      | Experimental | 21 days  | NOEC | >=100 mg/l |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                               | 2530-83-8  | Green Algae     | Experimental | 96 hours | NOEC | 130 mg/l   |

**12.2. Persistence and degradability**

| Material   | CAS Nbr    | Test type                   | Duration | Study Type                     | Test result       | Protocol                       |
|--|------------|-----------------------------|----------|--------------------------------|-------------------|--------------------------------|
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | Experimental Biodegradation | 28 days  | BOD                            | 0.1 % BOD/ThBOD   | OECD 301D - Closed bottle test |
| 4,4'-ISOPROPYLIDENEDI PHENOL- EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                    | 25068-38-6 | Estimated Hydrolysis        |          | Hydrolytic half-life           | <2 days (t 1/2)   | Other methods                  |
| 4,4'-ISOPROPYLIDENEDI PHENOL- EPICHLOROHYDRIN POLYMER (MW unknown or <=700)                    | 25068-38-6 | Experimental Biodegradation | 28 days  | BOD                            | 0 % BOD/ThBOD     | OECD 301C - MITI test (I)      |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane  | 2530-83-8  | Experimental Hydrolysis     |          | Hydrolytic half-life           | 6.5 hours (t 1/2) | Other methods                  |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane  | 2530-83-8  | Experimental Biodegradation | 28 days  | Dissolv. Organic Carbon Deplet | 37 % weight       | Other methods                  |

**12.3 : Bioaccumulative potential**

| Material   | Cas No.    | Test type                     | Duration | Study Type | Test result | Protocol      |
|--|------------|-------------------------------|----------|------------|-------------|---------------|
| 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 30583-72-3 | Experimental Bioconcentration |          | Log Kow    | 3.84        | Other methods |

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|  |            |   |         |                        |      |  |
|--|------------|---|---------|------------------------|------|--|
| 4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700) | 25068-38-6 | Experimental BCF- Carp                                | 28 days | Bioaccumulation factor | <=42 | OECD 305E - Bioaccumulation flow-through fish test |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane                              | 2530-83-8  | Data not available or insufficient for classification | N/A     | N/A                    | N/A  | N/A  |

#### 12.4. Mobility in soil

Please contact manufacturer for more details

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

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

#### 12.6. Other adverse effects

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

ADR/IMDG/IATA: Not restricted for transport.

## SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of 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

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restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

### List of relevant H statements

|      |  |
|------|--|
| H315 | Causes skin irritation.                            |
| H317 | May cause an allergic skin reaction.               |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H411 | Toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects. |

### Revision information:

Formulation: Section 16: Annex information was modified.

Industrial Application of Adhesives: Section 16: Annex information was deleted.

Industrial Use of Adhesives: Section 16: Annex information was added.

Section 6: Accidental release environmental information information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 13: 13.1. Waste disposal note information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

## Annex

| 1. Title   |  |
|--|--|
| Substance identification                               | 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700);<br>EC No. 500-033-5;<br>CAS Nbr 25068-38-6;                                   |
| Exposure Scenario Name                                 | Formulation  |
| Lifecycle Stage  | Use at industrial sites  |
| Contributing activities                                | PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing)<br>ERC 02 -Formulation into mixture         |
| Processes, tasks and activities covered                | Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs.  |
| 2. Operational conditions and risk management measures |  |
| Operating Conditions                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 225 days per year; |
| Risk management measures                               | Under the operational conditions described above the following risk management measures apply:   |

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|                                  |  |
|----------------------------------|--|
|                                  | <b>General risk management measures:</b><br><b>Human health:</b><br>Wear chemically resistant gloves (tested to EN374) in combination with ‘basic’ employee training. Refer to Section 8 of the SDS for specific glove material.;<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b> | Do not apply industrial sludge to natural soils;<br>Prevent leaks and prevent soil / water pollution caused by leaks;<br>Sludge should be incinerated, contained or reclaimed;   |
| <b>3. Prediction of exposure</b> |  |
| <b>Prediction of exposure</b>    | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

|   |   |
|---|---|
| <b>1. Title</b>   |   |
| <b>Substance identification</b>                               | [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane;<br>EC No. 219-784-2;<br>CAS Nbr 2530-83-8;   |
| <b>Exposure Scenario Name</b>                                 | Formulation   |
| <b>Lifecycle Stage</b>  | Use at industrial sites   |
| <b>Contributing activities</b>                                | PROC 05 -Mixing or blending in batch processes<br>PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing)<br>ERC 02 -Formulation into mixture   |
| <b>Processes, tasks and activities covered</b>                | Mixing or blending of solid or liquid materials. Transfer of substance/mixture with dedicated engineering controls.   |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 200 days per year;<br>Indoor use;   |
| <b>Risk management measures</b>                               | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Face shield;<br>Goggles - Chemical resistant;<br>Local exhaust ventilation;<br>Protective Clothing - Apron;<br>Protective Gloves - Butyl Rubber;<br>Protective Gloves - Fluoroelastomer (Viton);<br>Protective Gloves - Polyvinyl Alcohol (PVA);<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b>                              | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions:   |
| <b>3. Prediction of exposure</b>                              |   |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.  |

|                                 |  |
|---------------------------------|--|
| <b>1. Title</b>                 |  |
| <b>Substance identification</b> | [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane; |

**3M Scotch-Weld Epoxy Adhesive DP105 Clear, Part B**

|   |   |
|---|---|
|   | EC No. 219-784-2;<br>CAS Nbr 2530-83-8;   |
| <b>Exposure Scenario Name</b>                                 | Industrial Mixing and Application   |
| <b>Lifecycle Stage</b>  | Use at industrial sites   |
| <b>Contributing activities</b>                                | PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities<br>PROC 13 -Treatment of articles by dipping and pouring<br>ERC 05 -Use at industrial site leading to inclusion into/onto article   |
| <b>Processes, tasks and activities covered</b>                | Application of product. Transfer of substance/mixture with dedicated engineering controls. Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs.  |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: <= 200 days per year;<br>Indoor use;<br><br><b>Task: Transferring Material;</b><br>Duration of use: 4 hours/day;   |
| <b>Risk management measures</b>                               | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Face shield;<br>Goggles - Chemical resistant;<br>Protective Clothing - Apron;<br>Protective Gloves - Butyl Rubber;<br>Protective Gloves - Fluoroelastomer (Viton);<br>Protective Gloves - Polyvinyl Alcohol (PVA);<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b>                              | Send to a municipal sewage treatment plant;   |
| <b>3. Prediction of exposure</b>                              |   |
| <b>Prediction of exposure</b>                                 | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.  |

|   |   |
|---|---|
| <b>1. Title</b>   |   |
| <b>Substance identification</b>                               | 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER (MW unknown or <=700);<br>EC No. 500-033-5;<br>CAS Nbr 25068-38-6;  |
| <b>Exposure Scenario Name</b>                                 | Industrial Use of Adhesives   |
| <b>Lifecycle Stage</b>  | Use at industrial sites   |
| <b>Contributing activities</b>                                | PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities<br>PROC 13 -Treatment of articles by dipping and pouring<br>ERC 05 -Use at industrial site leading to inclusion into/onto article |
| <b>Processes, tasks and activities covered</b>                | Application of product with applicator gun. Transfers without dedicated controls, including loading, filling, dumping, bagging.   |
| <b>2. Operational conditions and risk management measures</b> |   |
| <b>Operating Conditions</b>                                   | <b>Physical state:</b> Liquid.<br><b>General operating conditions:</b><br>Duration of use: 8 hours/day;<br>Emission days per year: 220 days/year;   |

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|                                  |  |
|----------------------------------|--|
| <b>Risk management measures</b>  | Under the operational conditions described above the following risk management measures apply:<br><b>General risk management measures:</b><br><b>Human health:</b><br>Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.;<br><b>Environmental:</b><br>None needed; |
| <b>Waste management measures</b> | Do not apply industrial sludge to natural soils;<br>Prevent discharge of undissolved substance to or recover from wastewater;<br>Prevent leaks and prevent soil / water pollution caused by leaks;<br>Sludge should be incinerated, contained or reclaimed;  |
| <b>3. Prediction of exposure</b> |  |
| <b>Prediction of exposure</b>    | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.   |

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.

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