

# Safety Data Sheet

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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 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

### 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:

05-6781-8, 05-6783-4

# 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 2 - Skin Irrit. 2; H315 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319 Skin Sensitization, Category 1 - Skin Sens. 1; H317

Hazardous to the Aquatic Environment (Chronic), Category 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:

3,6-diazaoctanethylenediamin; bis-[4-(2,3-epoxipropoxi)phenyl]propane; Triethylenetetramine, propoxylated; 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:**

H315 Causes skin irritation.
H319 Causes serious eye 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.

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

# 3M Scotch-Weld Epoxy Adhesive DP105 Clear

<=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.

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

### **Revision information:**

Label: CLP Percent Unknown - Kit information was added.

Label: CLP Ingredients - kit components information was modified.

Section 1: Emergency telephone information was modified. Label: CLP Classification information was modified.

Label: CLP Precautionary - Disposal information was deleted.



# Safety Data Sheet

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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 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

## 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.

A similar mixture has been tested for eye damage/irritation and the test results do not meet the criteria for classification.

A similar mixture has been tested for skin corrosion/irritation and the test results do not meet the criteria for classification.

### **CLASSIFICATION:**

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
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	85 - 100
Triethylenetetramine, propoxylated	26950-63-0	500-055-5	1 - 10
3,6-diazaoctanethylenediamin	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.

# 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.

10% of the mixture consists of components of unknown acute inhalation toxicity.

# 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

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	(CAS-No.) 72244-98-5 (EC-No.) 701-196-7	85 - 100	Aquatic Chronic 3, H412 Skin Sens. 1B, H317
Triethylenetetramine, propoxylated	(CAS-No.) 26950-63-0 (EC-No.) 500-055-5	1 - 10	Eye Irrit. 2, H319 Skin Sens. 1B, H317
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	(CAS-No.) 3033-62-3 (EC-No.) 221-220-5	< 5	EUH071 Acute Tox. 3, H311 Acute Tox. 4, H332 Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
1,8-Diazabicyclo[5.4.0]undec-7-ene	(CAS-No.) 6674-22-2 (EC-No.) 229-713-7	< 3	Acute Tox. 4, H312 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
3,6-diazaoctanethylenediamin	(CAS-No.) 112-24-3 (EC-No.) 203-950-6	< 3	Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Aquatic Chronic 3, H412

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.

### Eve contact

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

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

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:

Allergic skin reaction (redness, swelling, blistering, and itching).

## 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 Condition Carbon monoxide During combustion. Carbon dioxide. During combustion. Oxides of sulphur. During combustion. During combustion.

Toxic vapour, gas, particulate.

### 5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# **SECTION 6: Accidental release measures**

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

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

# 6.2. Environmental precautions

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

# 6.3. Methods and material for containment and cleaning up

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

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.

IngredientCAS NbrAgencyLimit typeAdditional commentsN,N,N',N'-tetramethyl-2,2'-<br/>oxybis(ethylamine)3033-62-3Ireland OELsTWA(8 hours):0.05<br/>ppm;STEL(15 minutes):0.15<br/>ppm

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

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

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

No data available Polymer laminate No data available

Applicable Norms/Standards Use gloves tested to EN 374

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

### Respiratory protection

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

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

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

Applicable Norms/Standards

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

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid. Colour Colourless Odor Mercaptan Odour threshold No data available.

Melting point/freezing point Not applicable. Boiling point/boiling range >=93.3 °C Flammability (solid, gas) Not applicable. Flammable Limits(LEL) No data available. Flammable Limits(UEL)

Flash point

Autoignition temperature **Decomposition temperature** 

**Kinematic Viscosity** 

Water solubility

Solubility- non-water Partition coefficient: n-octanol/water

Vapour pressure Density

Relative density

**Relative Vapour Density** 

No data available.

>=93.3 °C [Test Method:Closed Cup]

No data available. No data available.

*substance/mixture is non-soluble (in water)* 

10,435 mm<sup>2</sup>/sec

Nil

No data available. No data available.

<=13.3 Pa 1.15 g/ml

1.15 [*Ref Std*:WATER=1]

No data available.

### 9.2. Other information

9.2.2 Other safety characteristics

**EU Volatile Organic Compounds** No data available. No data available. Evaporation rate 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

## **Substance**

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

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

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

Signs and Symptoms of Exposure

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

### Inhalation

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

# Skin contact

May be harmful in contact with skin. 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.

### Eve contact

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

### Ingestion

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 >2,000 - =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 >300 - =2,000 mg/kg
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	Dermal	Rabbit	LD50 > 10,200 mg/kg
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	Rat	LD50 2,600 mg/kg
Triethylenetetramine, propoxylated	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Triethylenetetramine, propoxylated	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Dermal	Rabbit	LD50 311 mg/kg
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 3.4 mg/l
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 571 mg/kg
3,6-diazaoctanethylenediamin	Dermal	Rabbit	LD50 550 mg/kg
3,6-diazaoctanethylenediamin	Ingestion	Rat	LD50 2,500 mg/kg
1,8-Diazabicyclo[5.4.0]undec-7-ene	Dermal	Rabbit	LD50 1,233 mg/kg
1,8-Diazabicyclo[5.4.0]undec-7-ene	Ingestion	Rat	LD50 > 300, < 681 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Skill Collosion/Hittation						
Name	Species	Value				
Overall product	Rabbit	Mild irritant				
alpha-Hydro-omega-hydroxy-poly[oxy(methyl-1,2-ethanediyl)], ether with 2,2-	Rabbit	No significant irritation				
bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether						
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Rabbit	Corrosive				
3,6-diazaoctanethylenediamin	Rabbit	Corrosive				
1,8-Diazabicyclo[5.4.0]undec-7-ene	In vitro	Corrosive				
	data					

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	Rabbit	Mild irritant
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	Rabbit	Mild irritant
Triethylenetetramine, propoxylated	Rabbit	Severe irritant
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Rabbit	Corrosive
3,6-diazaoctanethylenediamin	Rabbit	Corrosive
1,8-Diazabicyclo[5.4.0]undec-7-ene	similar	Corrosive
	health	
	hazards	

# **Skin Sensitisation**

Name	Species	Value

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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, propoxylated	Mouse	Sensitising
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Multiple animal species	Not classified
3,6-diazaoctanethylenediamin	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
Triethylenetetramine, propoxylated	In Vitro	Some positive data exist, but the data are not sufficient for classification
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	In Vitro	Not mutagenic
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	In vivo	Not mutagenic
1,8-Diazabicyclo[5.4.0]undec-7-ene	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

Name	Route	Value	Species	Test result	Exposure Duration
Triethylenetetramine, propoxylated	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating into lactation
Triethylenetetramine, propoxylated	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	43 days
Triethylenetetramine, propoxylated	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	premating into lactation
N,N,N',N'-tetramethyl-2,2'- oxybis(ethylamine)	Dermal	Not classified for development	Rabbit	NOAEL 12 mg/kg/day	during organogenesis
1,8-Diazabicyclo[5.4.0]undec-7-ene	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	premating into lactation
1,8-Diazabicyclo[5.4.0]undec-7-ene	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	29 days
1,8-Diazabicyclo[5.4.0]undec-7-ene	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	during gestation

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Triethylenetetramine, propoxylated	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
1,8- Diazabicyclo[5.4.0]undec- 7-ene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

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**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
Triethylenetetramine, propoxylated	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 300 mg/kg/day	43 days
N,N,N',N'-tetramethyl- 2,2'-oxybis(ethylamine)	Dermal	skin   heart   endocrine system   gastrointestinal tract   hematopoietic system   liver   immune system   muscles   nervous system   kidney and/or bladder   respiratory system   vascular system	Not classified	Rabbit	NOAEL 8 mg/kg/day	90 days
N,N,N',N'-tetramethyl- 2,2'-oxybis(ethylamine)	Inhalation	skin   endocrine system   eyes   respiratory system   heart   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 0.038 mg/l	14 weeks
N,N,N',N'-tetramethyl- 2,2'-oxybis(ethylamine)	Ingestion	gastrointestinal tract   liver   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	7 days
N,N,N',N'-tetramethyl- 2,2'-oxybis(ethylamine)	Ingestion	heart   endocrine system   hematopoietic system   nervous system	Not classified	Rat	NOAEL 220 mg/kg/day	7 days
1,8- Diazabicyclo[5.4.0]undec- 7-ene	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	Not classified	Rat	NOAEL 120 mg/kg/day	90 days

3M Scotch-Weld	<b>Epoxy Adhe</b>	sive DP105	Clear, Part A

bladder   respiratory		
system   vascular		
system		

### **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
alpha-Hydro-omega- hydroxy-	72244-98-5	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3-						
mercaptopropyl ether						
alpha-Hydro-omega- hydroxy-	72244-98-5	Green algae	Experimental	72 hours	EC50	>733 mg/l
poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3-						
mercaptopropyl ether						
alpha-Hydro-omega-	72244-98-5	Water flea	Experimental	48 hours	EC50	12 mg/l
hydroxy-						
poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3-						
mercaptopropyl ether alpha-Hydro-omega-	72244-98-5	Zebra Fish	Experimental	96 hours	LC50	87 mg/l
hydroxy-	12244-90-3	Zeora Fish	Experimental	90 HOUIS	LCJU	0 / IIIg/1
poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3-						
mercaptopropyl ether						

	I	la :	In .	1	l. roma	I "
alpha-Hydro-omega-	72244-98-5	Green algae	Experimental	72 hours	NOEC	338 mg/l
hydroxy- poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3-						
mercaptopropyl ether alpha-Hydro-omega-	72244-98-5	Water flea	Evmonimontal	21 days	NOEC	3.5 mg/l
hydroxy-	12244-98-3	water flea	Experimental	21 days	NOEC	3.3 Hig/1
poly[oxy(methyl-1,2-						
ethanediyl)], ether with						
2,2-						
bis(hydroxymethyl)-						
1,3-propanediol (4:1),						
2-hydroxy-3- mercaptopropyl ether						
Triethylenetetramine,	26950-63-0	N/A	Data not available	N/A	N/A	N/A
propoxylated	20,50 05 0	1771	or insufficient for	11/11	1771	11//11
1 1 3			classification			
N,N,N',N'-tetramethyl-	3033-62-3	Activated sludge	Experimental	30 minutes	EC20	>720 mg/l
2,2'-oxybis(ethylamine)	2022 (2.2		<u> </u>	F2.1	D 050	
N,N,N',N'-tetramethyl-	3033-62-3	Green algae	Experimental	72 hours	ErC50	24 mg/l
2,2'-oxybis(ethylamine) N,N,N',N'-tetramethyl-	3033-62-3	Water flea	Experimental	48 hours	EC50	102 mg/l
2,2'-oxybis(ethylamine)	3033-02-3	water fiea	Experimental	46 1100115	ECSU	102 111g/1
N,N,N',N'-tetramethyl-	3033-62-3	Zebra Fish	Experimental	96 hours	LC50	131.2 mg/l
2,2'-oxybis(ethylamine)			F			
N,N,N',N'-tetramethyl-	3033-62-3	Green algae	Experimental	72 hours	ErC10	5 mg/l
2,2'-oxybis(ethylamine)						
1,8-	6674-22-2	Activated sludge	Experimental	30 minutes	EC20	650 mg/l
Diazabicyclo[5.4.0]und						
ec-7-ene 1.8-	6674-22-2	Bacteria	Experimental	17 hours	EC10	210 mg/l
Diazabicyclo[5.4.0]und	00/4-22-2	Dacteria	Experimentar	17 Hours	LCTO	210 mg/1
ec-7-ene						
1,8-	6674-22-2	Golden Orfe	Experimental	96 hours	LC50	>=146.6 mg/l
Diazabicyclo[5.4.0]und						
ec-7-ene	((74.22.2	C 1	P : (1	72.1	EGG	> 100 //
1,8- Diazabicyclo[5.4.0]und	6674-22-2	Green algae	Experimental	72 hours	EC50	>100 mg/l
ec-7-ene						
1.8-	6674-22-2	Water flea	Experimental	48 hours	EC50	50 mg/l
Diazabicyclo[5.4.0]und			F			
ec-7-ene						
1,8-	6674-22-2	Green algae	Experimental	72 hours	EC10	>100 mg/l
Diazabicyclo[5.4.0]und						
ec-7-ene 1,8-	6674-22-2	Water flea	Experimental	21 days	NOEC	12 mg/l
Diazabicyclo[5.4.0]und	00/4-22-2	water fiea	Experimental	21 days	NOEC	12 Hig/1
ec-7-ene						
3,6-	112-24-3	Green algae	Experimental	72 hours	EC50	27.4 mg/l
diazaoctanethylenediam						
in			ļ			
3,6-	112-24-3	Guppy	Experimental	96 hours	LC50	570 mg/l
diazaoctanethylenediam in						
3,6-	112-24-3	Water flea	Experimental	48 hours	EC50	37.4 mg/l
diazaoctanethylenediam						
in						
3,6-	112-24-3	Green algae	Experimental	72 hours	NOEC	0.468 mg/l
diazaoctanethylenediam						
in 3,6-	112-24-3	Water flea	Experimental	21 days	NOEC	2.86 mg/l
diazaoctanethylenediam	112-24-3	vv ater riea	Experimental	21 uays	NOEC	2.00 Hig/I
in						
-	•	•	•	•	•	

# 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-ethanediyl)], 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		OECD 301B - Modified sturm or CO2
Triethylenetetramine, propoxylated	26950-63-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	Experimental Biodegradation	28 days	BOD	0 %BOD/ThO D	OECD 301C - MITI test (I)
1,8- Diazabicyclo[5.4.0]undec- 7-ene	6674-22-2	Experimental Biodegradation	28 days	BOD	0 %BOD/ThO D	OECD 301C - MITI test (I)
3,6- diazaoctanethylenediamin	112-24-3	Experimental Biodegradation	20 days	BOD	0 %BOD/ThO D	OECD 301D - Closed bottle test

# 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
alpha-Hydro-omega-	72244-98-5	Estimated		Log Kow	>1.2	
hydroxy-poly[oxy(methyl-		Bioconcentration				
1,2-ethanediyl)], ether with						
2,2-bis(hydroxymethyl)- 1,3-propanediol (4:1), 2-						
hydroxy-3-mercaptopropyl						
ether						
Triethylenetetramine,	26950-63-0	Data not available	N/A	N/A	N/A	N/A
propoxylated		or insufficient for				
		classification				
N,N,N',N'-tetramethyl-2,2'-	3033-62-3	Experimental		Log Kow	-0.339	OECD 107 log Kow shke
oxybis(ethylamine)		Bioconcentration				flsk mtd
1,8-	6674-22-2	Experimental BCF -	42 days	Bioaccumulation	<3.6	OECD305-Bioconcentration
Diazabicyclo[5.4.0]undec-		Fish		factor		
7-ene						
3,6-	112-24-3	Experimental BCF -	42 days	Bioaccumulation	<5.0	OECD305-Bioconcentration
diazaoctanethylenediamin		Fish		factor		

# 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	Modeled Mobility in Soil	Koc	13 l/kg	Episuite <sup>TM</sup>
1,8- Diazabicyclo[5.4.0]undec- 7-ene		Estimated Mobility in Soil	Koc	1 l/kg	ACD/Labs ChemSketch™

# 12.5. Results of the PBT and vPvB assessment

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

# 12.6. Endocrine disrupting properties

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

### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

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

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

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

### EU waste code (product as sold)

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

20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

# **SECTION 14: Transportation information**

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	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.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.

<b>Emergency Temperature</b>	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

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

# **SECTION 15: Regulatory information**

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

## 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 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 None

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 substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

# **SECTION 16: Other information**

### List of relevant H statements

EUH071 Corrosive to the respiratory tract.

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.

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

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

### **Revision information:**

CLP: Ingredient table information was modified.

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

Section 8: Occupational exposure limit table information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Mobility in soil information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

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

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

### 3M Ireland MSDSs are available at www.3M.com



# Safety Data Sheet

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 Version number:
 19.01

 Revision date:
 29/06/2023
 Supersedes date:
 08/02/2023

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 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

## 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 (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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	1675-54-3	216-823-5	20 - 24

### **HAZARD STATEMENTS:**

H315 Causes skin irritation.
H319 Causes serious eye 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.

# 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.

# 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]
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	(CAS-No.) 30583-72-3 (EC-No.) 500-070-7	70 - 80	Skin Sens. 1, H317 Aquatic Chronic 3, H412
bis-[4-(2,3-epoxipropoxi)phenyl]propane	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (REACH-No.) 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	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2 (REACH-No.) 01- 2119513212-58	0.5 - 1.5	Eye Dam. 1, H318 Aquatic Chronic 3, H412

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-epoxipropoxi)phenyl]propane	` '	(C >= 5%) Skin Irrit. 2, H315 (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

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

### If swallowed

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

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

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

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**

<u>Substance</u>	<u>Condition</u>
Aldehydes.	During combustion.
Hydrocarbons.	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Hydrogen Chloride	During combustion.
Ketones.	During combustion.
Toxic vapour, gas, particulate.	During combustion.

### 5.3. Advice for fire-fighters

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

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

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

# 6.3. Methods and material for containment and cleaning up

Contain spill. 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**

## 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	DNEL
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Troduct	Worker	Dermal, Long-term exposure (8 hours), Systemic effects	8.3 mg/kg bw/d
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane		Worker	Dermal, Short-term exposure, Systemic effects	8.3 mg/kg bw/d
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	12.3 mg/m³
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane		Worker	Inhalation, Short-term exposure, Systemic effects	12.3 mg/m³
[3-(2,3- epoxypropoxy)propyl]trim ethoxysilane		Worker	Dermal, Long-term exposure (8 hours), Systemic effects	21 mg/kg bw/d
[3-(2,3- epoxypropoxy)propyl]trim ethoxysilane		Worker	Dermal, Short-term exposure, Systemic effects	21 mg/kg bw/d
[3-(2,3- epoxypropoxy)propyl]trim ethoxysilane		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	147 mg/m³
[3-(2,3- epoxypropoxy)propyl]trim ethoxysilane		Worker	Inhalation, Short-term exposure, Systemic effects	147 mg/m³

# Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
bis-[4-(2,3- epoxipropoxi)phenyl]propa		Freshwater	0.003 mg/l

ne		
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	Freshwater sediments	0.5 mg/kg d.w.
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	Intermittent releases to water	0.013 mg/l
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	Marine water	0.0003 mg/l
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	Marine water sediments	0.5 mg/kg d.w.
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	Sewage Treatment Plant	10 mg/l
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Agricultural soil	0.13 mg/kg d.w.
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Freshwater	1 mg/l
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Freshwater sediments	0.79 mg/kg d.w.
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Intermittent releases to water	1 mg/l
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Marine water	0.1 mg/l
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	Sewage Treatment Plant	10 mg/l

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

# 8.2. Exposure controls

In addition, refer to the annex for more information.

# 8.2.1. Engineering controls

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

# 8.2.2. Personal protective equipment (PPE)

# Eye/face protection

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

Applicable Norms/Standards

Use eye protection conforming to EN 166

### Skin/hand protection

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

MaterialThickness (mm)Breakthrough TimePolymer laminateNo data availableNo data available

Applicable Norms/Standards Use gloves tested to EN 374

# 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

### 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 LiquidColourColourlessOdorSlight EpoxyOdour thresholdNo data available.

Melting point/freezing pointNot applicable.Boiling point/boiling range>=115.6 °CFlammability (solid, gas)Not applicable.Flammable Limits(LEL)No data available.

Flammable Limits(UEL)

No data available.
>=115.6 °C [Test M

Flash point >=115.6 °C [Test Method: Pensky-Martens Closed Cup]
Autoignition temperature No data available.

Decomposition temperature

No data available.

No data available.

H substance/mixture is non-soluble (in water)

**Kinematic Viscosity** 4,505 mm<sup>2</sup>/sec

Water solubility Nil

**Solubility- non-water Partition coefficient: n-octanol/water**No data available.

No data available.

**Vapour pressure** <=186,158.4 Pa [@ 55 °C ]

**Density** 1.11 g/ml

**Relative density** 1.11 [Ref Std: WATER=1]

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

Relative Vapour Density

No data available.

## 9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic CompoundsNo data available.Evaporation rateNo data available.Molecular weightNo 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

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

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

### Skin contact

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction

(non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

# Eye contact

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'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Dermal	Rat	LD50 > 2,000 mg/kg
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Ingestion	Rat	LD50 > 2,000 mg/kg
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Dermal	Rat	LD50 > 1,600 mg/kg
bis-[4-(2,3-epoxipropoxi)phenyl]propane	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'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-	Rabbit	Minimal irritation
2,3-epoxypropane		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Mild irritant
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-	Rabbit	Mild irritant
2,3-epoxypropane		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Moderate irritant
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Rabbit	Corrosive

# **Skin Sensitisation**

Name	Species	Value
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Mouse	Sensitising
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Human and animal	Sensitising
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Guinea pig	Not classified

**Respiratory Sensitisation** 

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

**Germ Cell Mutagenicity** 

Name	Route	Value
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	In vivo	Not mutagenic
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	In Vitro	Some positive data exist, but the data are not sufficient for classification
bis-[4-(2,3-epoxipropoxi)phenyl]propane	In vivo	Not mutagenic
bis-[4-(2,3-epoxipropoxi)phenyl]propane	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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	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'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
bis-[4-(2,3-epoxipropoxi)phenyl]propane	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'- Isopropylidenedicyclohexa	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 100 mg/kg/day	90 days
nol, oligomeric reaction		biaddei	classification		mg/kg/day	

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products with 1-chloro- 2,3-epoxypropane						
4,4'- Isopropylidenedicyclohexa nol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	Ingestion	heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   vascular system   skin   muscles   eyes   respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	90 days
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	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]trim ethoxysilane	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.

### 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	Туре	Exposure	Test endpoint	Test result
4,4'-	30583-72-3	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
Isopropylidenedicycloh						
exanol, oligomeric						

	1		1	1		
reaction products with						
1-chloro-2,3-						
epoxypropane	1		<u> </u>			
4,4'-	30583-72-3	Green algae	Experimental	72 hours	EC50	>100 mg/l
Isopropylidenedicycloh						
exanol, oligomeric						
reaction products with						
1-chloro-2,3-						
epoxypropane						
4,4'-	30583-72-3	Rainbow trout	Experimental	96 hours	LC50	11.5 mg/l
Isopropylidenedicycloh						
exanol, oligomeric						
reaction products with						
1-chloro-2,3-						
epoxypropane						
bis-[4-(2,3-	1675-54-3	Activated sludge	Analogous	3 hours	IC50	>100 mg/l
epoxipropoxi)phenyl]pr			Compound			
opane						
bis-[4-(2,3-	1675-54-3	Rainbow trout	Estimated	96 hours	LC50	2 mg/l
epoxipropoxi)phenyl]pr						
opane						
bis-[4-(2,3-	1675-54-3	Water flea	Estimated	48 hours	EC50	1.8 mg/l
epoxipropoxi)phenyl]pr						
opane						
bis-[4-(2,3-	1675-54-3	Green algae	Experimental	72 hours	ErC50	>11 mg/l
epoxipropoxi)phenyl]pr			1			
opane						
bis-[4-(2,3-	1675-54-3	Green algae	Experimental	72 hours	NOEC	4.2 mg/l
epoxipropoxi)phenyl]pr			1 *			
opane						
bis-[4-(2,3-	1675-54-3	Water flea	Experimental	21 days	NOEC	0.3 mg/l
epoxipropoxi)phenyl]pr			*			
opane						
[3-(2,3-	2530-83-8	Common Carp	Experimental	96 hours	LC50	55 mg/l
epoxypropoxy)propyl]tr			F			
imethoxysilane						
[3-(2,3-	2530-83-8	Green algae	Experimental	96 hours	ErC50	350 mg/l
epoxypropoxy)propyl]tr		oreen argue	z.iperiiieii.ui	y o nours	12.000	see mg.
imethoxysilane						
[3-(2,3-	2530-83-8	Invertebrate	Experimental	48 hours	LC50	324 mg/l
epoxypropoxy)propyl]tr		mvertebrate	Experimental	40 Hours	Leso	324 mg/1
imethoxysilane						
[3-(2,3-	2530-83-8	Green algae	Experimental	96 hours	NOEC	130 mg/l
epoxypropoxy)propyl]tr		Green argae	Experimental	70 Hours	INOLE	130 mg/1
imethoxysilane						
[3-(2,3-	2530-83-8	Water flea	Experimental	21 days	NOEC	100 mg/l
epoxypropoxy)propyl]tr	1					
imethoxysilane						
[3-(2,3-	2530-83-8	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
epoxypropoxy)propyl]tr						
imethoxysilane			1			
memorysnanc	1		1	1		

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
4,4'- Isopropylidenedicyclohexan ol, oligomeric reaction products with 1-chloro-2,3- epoxypropane	30583-72-3	Experimental Biodegradation	28 days		0.1 %BOD/Th OD	OECD 301D - Closed bottle test
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	1675-54-3	Experimental Biodegradation	28 days	BOD	5 %BOD/COD	OECD 301F - Manometric respirometry
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	1675-54-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	117 hours (t 1/2)	OECD 111 Hydrolysis func of pH
[3-(2,3-	2530-83-8	Experimental	28 days	Dissolv. Organic	37 %removal	EC C.4.A. DOC Die-Away

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

epoxypropoxy)propyl]trimet hoxysilane		Biodegradation	Carbon Deplet	of DOC	Test
[3-(2,3-	2530-83-8	Experimental	Hydrolytic half-life	6.5 hours (t	OECD 111 Hydrolysis func
epoxypropoxy)propyl]trimet		Hydrolysis	(pH 7)	1/2)	of pH
hoxysilane					

# 12.3: Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
4,4'-	30583-72-3	Experimental		Log Kow	3.84	
Isopropylidenedicyclohexa		Bioconcentration				
nol, oligomeric reaction						
products with 1-chloro-2,3-						
epoxypropane						
bis-[4-(2,3-	1675-54-3	Experimental		Log Kow	3.242	OECD 117 log Kow HPLC
epoxipropoxi)phenyl]propa		Bioconcentration				method
ne						
[3-(2,3-	2530-83-8	Experimental		Log Kow	0.5	Episuite <sup>TM</sup>
epoxypropoxy)propyl]trime		Bioconcentration				
thoxysilane						

### 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne		Modeled Mobility in Soil	Koc	450 l/kg	Episuite <sup>TM</sup>
[3-(2,3- epoxypropoxy)propyl]trime thoxysilane	1	Modeled Mobility in Soil	Koc	10 l/kg	Episuite <sup>TM</sup>

### 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**

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	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.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
<b>Emergency Temperature</b>	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.
i .			

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

IngredientCAS NbrClassificationRegulationbis-[4-(2,3-epoxipropoxi)phenyl]propane1675-54-3Gr. 3: Not classifiableInternational Agency<br/>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.

Ingredient CAS Nbr bis-[4-(2,3-epoxipropoxi)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 None

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.
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:**

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

# Annex

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

1. Title	
Substance identification	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane; EC No. 219-784-2; CAS Nbr 2530-83-8;
Exposure Scenario Name	Industrial Mixing and Application
Lifecycle Stage	Use at industrial sites
Contributing activities	PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities

.....

	PROC 13 -Treatment of articles by dipping and pouring	
	ERC 05 -Use at industrial site leading to inclusion into/onto article	
Processes, tasks and activities covered	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.	
2. Operational conditions and risk management measures		
Operating Conditions	Physical state:Liquid.	
	General operating conditions:	
	Duration of use: 8 hours/day;	
	Emission days per year: <= 200 days per year;	
	Indoor use;	
	Task: Transferring Material;	
	Duration of use: 4 hours/day;	
Risk management measures	Under the operational conditions described above the following risk management	
	measures apply:	
	General risk management measures:	
	Human health:	
	Face shield;	
	Goggles - Chemical resistant;	
	Protective Clothing - Apron;	
	Protective Gloves - Butyl Rubber;	
	Protective Gloves - Fluoroelastomer (Viton);	
	Protective Gloves - Polyvinyl Alcohol (PVA);	
	Environmental:	
	None needed;	
Waste management measures	Send to a municipal sewage treatment plant;	
	1	
3. Prediction of exposure		
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and	
_	PNECs when the identified risk management measures are adopted.	

1. Title		
Substance identification	bis-[4-(2,3-epoxipropoxi)phenyl]propane; EC No. 216-823-5; CAS Nbr 1675-54-3;	
Exposure Scenario Name	Industrial Use of Adhesives	
Lifecycle Stage	Use at industrial sites	
Contributing activities	PROC 08a -Transfer of substance or mixture (charging and discharging) at non- dedicated facilities PROC 13 -Treatment of articles by dipping and pouring ERC 05 -Use at industrial site leading to inclusion into/onto article	
Processes, tasks and activities covered	Application of product with a roller or brush. Application of product with applicator gun. Application with a wipe. Transfers without dedicated controls, including loading, filling, dumping, bagging.	
2. Operational conditions and risk management measures		
Operating Conditions	Physical state:Liquid. General operating conditions: Duration of use: 8 hours/day; Emission days per year: 220 days/year; Frequency of exposure at workplace [for one worker]: 5 days/week;	
Risk management measures	Under the operational conditions described above the following risk management measures apply:  General risk management measures:  Human health:  Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for	

	specific glove material.; Environmental: None needed;	
Waste management measures	Do not apply industrial sludge to natural soils; Prevent discharge of undissolved substance to or recover from wastewater;	
3. Prediction of exposure		
Prediction of exposure	Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted.	

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