

# Safety Data Sheet

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 28-8088-8
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**Transportation version number:** 

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

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

#### 1.1. Product identifier

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Acrylic Structural Adhesive DP-8005 Kit

**Product Identification Numbers** 

FS-9100-2896-8 FS-9100-4049-2 UU-0111-3394-7 UU-0111-3804-5

7000079932 7000080089 7100240965 7100241346

#### 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 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:

28-8077-1, 28-8085-4

# TRANSPORTATION INFORMATION

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

# KIT LABEL

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

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

#### **CLASSIFICATION:**

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318 Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334 Skin Sensitization, Category 1 - Skin Sens. 1; H317

Germ Cell Mutagenicity, Category 2 - Muta. 2; H341 Reproductive Toxicity, Category 1B - Repr. 1B; H360D

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

For full text of H phrases, see Section 16.

#### 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### **Symbols**

GHS05 (Corrosion) |GHS08 (Health Hazard) |GHS09 (Environment) |

#### **Pictograms**







#### **Contains:**

Polyester plasticizer; succinic anhydride; Titanium dioxide; [2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate; Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-; Tetrahydrofurfuryl methacrylate; 2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate); Siloxanes and Silicones, di-Me, reaction products with silica; 2-Ethylhexyl methacrylate; methyl methacrylate; 2-hydroxyethyl methacrylate

#### **HAZARD STATEMENTS:**

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H360D May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

#### **Prevention:**

P201 Obtain special instructions before use.

P261A Avoid breathing vapours.

P280B Wear protective gloves and eye/face protection.

#### **Response:**

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

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

#### <=125 ml Hazard statements

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H360D May damage the unborn child.

#### <=125 ml Precautionary statements

#### **Prevention:**

P201 Obtain special instructions before use.

P261A Avoid breathing vapours.

P280B Wear protective gloves and eye/face protection.

**Response:** 

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

#### SUPPLEMENTAL INFORMATION:

# **Supplemental Precautionary Statements:**

Restricted to professional users.

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

#### **Revision information:**

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



# Safety Data Sheet

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 28-8085-4
 Version number:
 12.02

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 08/05/2023
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 05/05/2023

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

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

#### 1.1. Product identifier

3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Acrylic Structural Plastic Adhesive DP-8005 (Part A)

#### **Product Identification Numbers**

FS-9100-3812-4

7000080039

#### 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

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

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

#### **CLASSIFICATION:**

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

Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334

Skin Sensitization, Category 1 - Skin Sens. 1; H317 Germ Cell Mutagenicity, Category 2 - Muta. 2; H341

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

For full text of H phrases, see Section 16.

#### 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### **Symbols**

GHS05 (Corrosion) |GHS08 (Health Hazard) |GHS09 (Environment) |

#### **Pictograms**







Ingredient	CAS Nbr	EC No.	% by Wt
Polyester plasticizer	Trade Secret		40 - 60
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	64265-57-2	264-763-3	20 - 40
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	223674-50-8	426-100-8	5 - 20
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7		0.5 - 1.5
Titanium dioxide	13463-67-7	236-675-5	0.1 - 0.5

# **HAZARD STATEMENTS:**

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**Prevention:** 

P261A Avoid breathing vapours.

P280B Wear protective gloves and eye/face protection.

**Response:** 

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

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

#### <=125 ml Hazard statements

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

# <=125 ml Precautionary statements

#### **Prevention:**

P261A Avoid breathing vapours.

P280B Wear protective gloves and eye/face protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor/physician.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

44% of the mixture consists of components of unknown acute oral toxicity.

Contains 100% of components with unknown hazards to the aquatic environment.

Polyfunctional aziridine is classified as Acute Tox. 2 (H330) based on dust/mist (aerosol) data.

When incorporated into this product, this substance cannot become aerosolized.

Based on available toxicology data and this substance's very low vapour pressure, the saturated vapour of polyfunctional aziridine is not expected to be acutely toxic. Therefore, the classification is not applicable for this material when used as intended.

# 2.3. Other hazards

None known.

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

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

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation
			(EC) No. 1272/2008 [CLP], as amended for GB
Polyester plasticizer	Trade Secret	40 - 60	Substance not classified as hazardous
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	(CAS-No.) 64265-57-2 (EC-No.) 264-763-3	20 - 40	Acute Tox. 2, H330 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	(CAS-No.) 223674-50-8 (EC-No.) ELINCS 426- 100-8	5 - 20	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317

Siloxanes and Silicones, di-Me, reaction products with silica	(CAS-No.) 67762-90-7		Substance with a national occupational exposure limit
	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	0.1 - 0.5	Carc. 2, H351 (inhalation)

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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

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

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

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

# 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**

SubstanceConditionAldehydes.During combustion.Carbon monoxideDuring combustion.Carbon dioxide.During combustion.Irritant vapours or gases.During combustion.Oxides of nitrogen.During combustion.

#### 5.3. Advice for fire-fighters

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

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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

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

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. 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.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

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

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

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

#### 8.1 Control parameters

#### Occupational exposure limits

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

Ingredient CAS Nbr Agency Limit type Additional comments

Titanium dioxide 13463-67-7 UK HSC TWA(respirable):4

mg/m3;TWA(Inhalable):10

mg/m3

Silicon dioxide 67762-90-7 UK HSC TWA(as respirable dust):2.4

mg/m3;TWA(as inhalable

dust):6 mg/m3

UK HSC: UK Health and Safety Commission

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

#### **Biological limit values**

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

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

# 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Full face shield.

Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 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

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

In case of inadequate ventilation wear 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 stateLiquid.Specific Physical Form:PasteColourWhiteOdorMild Odor

Odour thresholdNo data available.Melting point/freezing pointNo data available.

**Boiling point/boiling range** >=181 °C [Details:758 mmHg]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Not applicable.

Not applicable.

Flash point >=93.3 °C [Test Method:Closed Cup]

Autoignition temperatureNo data available.Decomposition temperatureNo data available.

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

Kinematic Viscosity33,333 mm²/secWater solubilitySlight (less than 10%)Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Vapour pressureNo data available.Density1.05 - 1.09 g/ml

Relative density 1.05 - 1.09 [Ref Std:WATER=1]

**Relative Vapour Density**No data available.

9.2. Other information

9.2.2 Other safety characteristics

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

Not applicable.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

Stable.

# 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

Heat.

# 10.5 Incompatible materials

Strong acids.

Strong bases.

Strong oxidising agents.

Amines.

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

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

Signs and Symptoms of Exposure

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

#### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

#### Skin contact

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

#### Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Ingestion**

Harmful if swallowed.

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

# **Additional Health Effects:**

#### Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

### **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	Ingestion		No data available; calculated ATE >300 - =2,000
			mg/kg
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-	Dermal	Rabbit	LD50 > 3,000 mg/kg
1,3-diyl bis(2-methylaziridine-1-propionate)			
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-	Inhalation-	Rat	LC50 0.252 mg/l
1,3-diyl bis(2-methylaziridine-1-propionate)	Dust/Mist		
	(4 hours)		
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-	Ingestion	Rat	LD50 3,038 mg/kg
1,3-diyl bis(2-methylaziridine-1-propionate)			
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	Ingestion	Rat	LD50 693 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-	Rabbit	Mild irritant
methylaziridine-1-propionate)		
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	Rabbit	No significant irritation
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation

**Serious Eye Damage/Irritation** 

Name	Species	Value
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	Rabbit	Corrosive
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	Professio nal judgemen t	Severe irritant
Siloxanes and Silicones, di-Me, reaction products with silica	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation

# **Skin Sensitisation**

Name	Species	Value
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-	Human	Sensitising
methylaziridine-1-propionate)	and	
	animal	
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	Guinea	Sensitising
	pig	
Siloxanes and Silicones, di-Me, reaction products with silica	Human	Not classified
	and	
	animal	
Titanium dioxide	Human	Not classified
	and	
	animal	

**Respiratory Sensitisation** 

Name	Species	Value
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-	Human	Sensitising

\_\_\_\_\_

# 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Acrylic Structural Plastic Adhesive DP-8005 (Part A)

methylaziridine-1-propionate)	methylaziridine-1-propionate)	
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**Germ Cell Mutagenicity** 

Name	Route	Value
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methyl]propane-1,3-diyl bis(2-	In vivo	Mutagenic
methylaziridine-1-propionate)		
Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-	In Vitro	Not mutagenic
Siloxanes and Silicones, di-Me, reaction products with silica	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic

Carcinogenicity

8 1			
Name	Route	Species	Value
Siloxanes and Silicones, di-Me, reaction products with silica	Not	Mouse	Some positive data exist, but the data are not
	specified.		sufficient for classification
Titanium dioxide	Ingestion	Multiple	Not carcinogenic
		animal	-
		species	
Titanium dioxide	Inhalation	Rat	Carcinogenic.

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Siloxanes and Silicones, di-Me, reaction products with silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2-ethyl-2-[[3-(2- methylaziridin-1- yl)propionyl]methyl]propa ne-1,3-diyl bis(2- methylaziridine-1- propionate)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	4 hours

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Siloxanes and Silicones, di-Me, reaction products with silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

# **Aspiration Hazard**

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information

\_\_\_\_\_

on this material and/or its components.

#### 11.2. Information on other hazards

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

# **SECTION 12: Ecological information**

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

# 12.1. Toxicity

No product test data available.

Material	CAS#	Organism	Type	Exposure	Test endpoint	Test result
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methy l]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	64265-57-2	Algae or other aquatic plants	Experimental	72 hours	EC50	3.8 mg/l
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methy l]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	64265-57-2	Fish	Experimental	96 hours	LC50	2.35 mg/l
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methy l]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	64265-57-2	Invertebrate	Experimental	48 hours	EC50	6.96 mg/l
Boron, hexaethyl[mu-(1,6-hexanediamine- kN1:kN6)]di-	223674-50-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2-ethyl-2-[[3-(2-	64265-57-2	Experimental	28 days	CO2 evolution	<60 %CO2	OECD 301B - Modified
methylaziridin-1-		Biodegradation			evolution/THCO2	sturm or CO2
yl)propionyl]methy					evolution	

# 3M<sup>TM</sup> Scotch-Weld<sup>TM</sup> Acrylic Structural Plastic Adhesive DP-8005 (Part A)

l]propane-1,3-diyl bis(2- methylaziridine-1- propionate)						
Boron, hexaethyl[mu-(1,6- hexanediamine- kN1:kN6)]di-	223674-50-8	Experimental Biodegradation	28 days	CO2 evolution	44 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A

# 12.3: Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
2-ethyl-2-[[3-(2-methylaziridin-1-yl)propionyl]methy l]propane-1,3-diyl bis(2-methylaziridine-1-propionate)	64265-57-2	Modeled Bioconcentration		Log Kow	0.5	ACD/Labs ChemSketch™
Boron, hexaethyl[mu-(1,6- hexanediamine- kN1:kN6)]di-	223674-50-8	Experimental Bioconcentration		Log Kow	>5.99	EC A.8 Partition Coefficient
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Experimental BCF - Fish	42 days	Bioaccumulation factor	9.6	

# 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
2-ethyl-2-[[3-(2-	64265-57-2	Modeled Mobility	Koc	19,000 l/kg	Episuite <sup>TM</sup>
methylaziridin-1-		in Soil			
yl)propionyl]methyl					
]propane-1,3-diyl					
bis(2-					
methylaziridine-1-					
propionate)					

# 12.5. Results of the PBT and vPvB assessment

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

#### 12.6. Other adverse effects

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

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

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. If no other disposal options are available, waste product that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

# EU waste code (product as sold)

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

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

# **SECTION 14: Transportation information**

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(POLYFUNCTIONA L AZIRIDINE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(POLYFUNCTIONAL AZIRIDINE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(POLYFUNCTIONAL AZIRIDINE)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally Hazardous	Not applicable	Marine Pollutant
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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	o Annex II		No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	M6	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

Please contact the address or phone number listed on the first page of the SDS for additional information on the

transport/shipment of the material by rail (RID) or inland waterways (ADN).

# **SECTION 15: Regulatory information**

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

### Carcinogenicity

<u>Ingredient</u>	CAS Nbr	<u>Classification</u>	Regulation
Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

#### Global inventory status

Contact 3M for more information.

## COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1

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

Seveso named dangerous substances, Annex 1, Part 2 None

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

No chemicals listed

# 15.2. Chemical Safety Assessment

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

# **SECTION 16: Other information**

## List of relevant H statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H351i	Suspected of causing cancer by inhalation.
H411	Toxic to aquatic life with long lasting effects.

#### **Revision information:**

GB Section 02: CLP Ingredient table information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use

(except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

# 3M SDSs for Great Britain are available at www.3M.com/uk

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



# Safety Data Sheet

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

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

#### 1.1. Product identifier

3M<sup>™</sup> Scotch-Weld<sup>™</sup> Acrylic Structural Adhesive DP-8005 (Part B)

#### **Product Identification Numbers**

FS-9100-3811-6

7000080038

#### 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

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

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

#### **CLASSIFICATION:**

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

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

Reproductive Toxicity, Category 1B - Repr. 1B; H360D

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

For full text of H phrases, see Section 16.

#### 2.2. Label elements

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

#### SIGNAL WORD

DANGER.

#### **Symbols**

GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

## **Pictograms**







Ingredient	CAS Nbr	EC No.	% by Wt
Tetrahydrofurfuryl methacrylate	2455-24-5	219-529-5	40 - 50
2-Ethylhexyl methacrylate	688-84-6	211-708-6	10 - 20
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	244-096-4	3 - 7
succinic anhydride	108-30-5	203-570-0	< 1
2-hydroxyethyl methacrylate	868-77-9	212-782-2	< 0.2
methyl methacrylate	80-62-6	201-297-1	< 0.2

#### **HAZARD STATEMENTS:**

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

# PRECAUTIONARY STATEMENTS

**Prevention:** 

P201 Obtain special instructions before use.

P280B Wear protective gloves and eye/face protection.

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.

P310 Immediately call a POISON CENTRE or doctor/physician.
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

H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction. H360D May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

#### <=125 ml Precautionary statements

**Prevention:** 

P201 Obtain special instructions before use.

P280B Wear protective gloves and eye/face protection.

**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.

P310 Immediately call a POISON CENTRE or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

#### SUPPLEMENTAL INFORMATION:

# **Supplemental Precautionary Statements:**

Restricted to professional users.

27% of the mixture consists of components of unknown acute oral toxicity.

#### 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)	9/0	Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for GB
Tetrahydrofurfuryl methacrylate	(CAS-No.) 2455-24-5 (EC-No.) 219-529-5	40 - 50	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412
Acrylate polymer	Trade Secret	20 - 30	Substance not classified as hazardous
2-Ethylhexyl methacrylate	(CAS-No.) 688-84-6 (EC-No.) 211-708-6	10 - 20	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
	,		,
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-		3 - 7	Substance not classified as hazardous
2-propenyl)oxy]ethyl ester	(EC-No.) 244-311-1		
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl]	(CAS-No.) 20882-04-6	3 - 7	Eye Dam. 1, H318
hydrogen succinate	(EC-No.) 244-096-4		Skin Sens. 1, H317
Ashes (residues), cenospheres	(CAS-No.) 93924-19-7 (EC-No.) 300-212-6	1 - 5	Substance not classified as hazardous

succinic anhydride	(CAS-No.) 108-30-5 (EC-No.) 203-570-0	< 1	EUH071 Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317
methyl methacrylate	(CAS-No.) 80-62-6 (EC-No.) 201-297-1	< 0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Nota D
styrene	(CAS-No.) 100-42-5 (EC-No.) 202-851-5	< 0.2	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372 Nota D Aquatic Chronic 3, H412 Asp. Tox. 1, H304 STOT SE 3, H335
2-hydroxyethyl methacrylate	(CAS-No.) 868-77-9 (EC-No.) 212-782-2	< 0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Nota D

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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If swallowed

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

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

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

Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

#### 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>
Hydrocarbons.	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Hydrogen cyanide.	During combustion.
Oxides of nitrogen.	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

Do not use in a confined area with minimal air exchange. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

# 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidising agents.

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

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

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

# 8.1 Control parameters

## Occupational exposure limits

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

**CAS Nbr** Ingredient Additional comments Agency Limit type 100-42-5 UK HSC TWA:430 mg/m3(100 styrene ppm);STEL:1080 mg/m3(250 ppm) methyl methacrylate 80-62-6 UK HSC TWA:208 mg/m3(50 ppm);STEL:416 mg/m3(100 ppm)

UK HSC: UK Health and Safety Commission

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

# Biological limit values

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

#### 8.2. Exposure controls

# 8.2.1. Engineering controls

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

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Full face shield.

Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 166

#### Skin/hand protection

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

Material Thickness (mm) Breakthrough Time

Polymer laminate No data available No data available

Applicable Norms/Standards Use gloves tested to EN 374

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

#### Respiratory protection

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

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

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 stateLiquid.Specific Physical Form:PasteColourOff-WhiteOdorAcrylic

Odour thresholdNo data available.Melting point/freezing pointNot applicable.

Boiling point/boiling range >=110 °C [Details:CAS #688-84-6]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

No data available.

No data available.

Flash point >=94 °C [Test Method:Closed Cup] [Details:CAS #688-84-6] Autoignition temperature No data available.

**Decomposition temperature**No data available.
No data available.

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

Kinematic Viscosity17,708 mm²/secWater solubilityNot applicable.Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Vapour pressureNo data available.Density0.96 - 1 g/ml

Relative density 0.96 - 1 [Ref Std: WATER=1]

**Relative Vapour Density** *No data available.* 

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

Not applicable.

Percent volatile 1 %

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

Stable.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

Light.

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

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

Signs and Symptoms of Exposure

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

#### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

# Skin contact

May be harmful in contact with skin. Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eve contact

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

Ingestion

\_\_\_\_\_

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

# **Additional Health Effects:**

# Reproductive/Developmental Toxicity:

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

# Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### **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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Tetrahydrofurfuryl methacrylate	Ingestion	Rat	LD50 4,000 mg/kg
Tetrahydrofurfuryl methacrylate	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
2-Ethylhexyl methacrylate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
2-Ethylhexyl methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	Ingestion	Rat	LD50 > 2,000 mg/kg
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Dermal	Rat	LD50 > 2,000 mg/kg
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Ingestion	Rat	LD50 > 5,000 mg/kg
succinic anhydride	Dermal	Rat	LD50 > 2,000 mg/kg
succinic anhydride	Ingestion	Rat	LD50 1,510 mg/kg
methyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
methyl methacrylate	Inhalation- Vapour (4 hours)	Rat	LC50 29 mg/l
methyl methacrylate	Ingestion	Rat	LD50 7,900 mg/kg
2-hydroxyethyl methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-hydroxyethyl methacrylate	Ingestion	Rat	LD50 5,564 mg/kg
styrene	Dermal	Rat	LD50 > 2,000 mg/kg
styrene	Inhalation- Vapour (4 hours)	Rat	LC50 11.8 mg/l
styrene	Ingestion	Rat	LD50 5,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Skill Collosion/II Itation				
Name	Species	Value		
Tetrahydrofurfuryl methacrylate	Rabbit	No significant irritation		
2-Ethylhexyl methacrylate	Rabbit	Minimal irritation		
z-Ethymexyi methaci yiate	Rabbit	Willima Illitation		
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	Professio	Mild irritant		
	nal			
	judgemen			

D---- 0 - C 2

	t	
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Rabbit	No significant irritation
succinic anhydride	In vitro	Corrosive
	data	
methyl methacrylate	Human	Mild irritant
	and	
	animal	
2-hydroxyethyl methacrylate	Rabbit	Minimal irritation
styrene	Professio	Mild irritant
	nal	
	judgemen	
	t	

**Serious Eye Damage/Irritation** 

Name	Species	Value
Tetrahydrofurfuryl methacrylate	Rabbit	No significant irritation
2-Ethylhexyl methacrylate	Rabbit	No significant irritation
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	In vitro	Corrosive
	data	
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Rabbit	No significant irritation
succinic anhydride	similar	Corrosive
	health	
	hazards	
methyl methacrylate	Rabbit	Moderate irritant
2-hydroxyethyl methacrylate	Rabbit	Moderate irritant
styrene	Professio	Moderate irritant
	nal	
	judgemen	
	t	

# **Skin Sensitisation**

Name	Species	Value
Tetrahydrofurfuryl methacrylate	In vitro	Sensitising
	data	
2-Ethylhexyl methacrylate	Guinea	Sensitising
	pig	
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	Professio	Sensitising
	nal	
	judgemen	
	t	
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Mouse	Not classified
succinic anhydride	Mouse	Sensitising
methyl methacrylate	Human	Sensitising
	and	
	animal	
2-hydroxyethyl methacrylate	Human	Sensitising
	and	
	animal	
styrene	Guinea	Not classified
	pig	

**Respiratory Sensitisation** 

The printer of the pr		
Name	Species	Value
	•	
succinic anhydride	similar	Sensitising
, ,	compoun	č
	ds	
	us	
methyl methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value

Tetrahydrofurfuryl methacrylate	In Vitro	Not mutagenic
2-Ethylhexyl methacrylate	In Vitro	Not mutagenic
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	In Vitro	Not mutagenic
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	In vivo	Not mutagenic
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	In Vitro	Some positive data exist, but the data are not sufficient for classification
succinic anhydride	In Vitro	Not mutagenic
methyl methacrylate	In vivo	Not mutagenic
methyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-hydroxyethyl methacrylate	In vivo	Not mutagenic
2-hydroxyethyl methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
styrene	In Vitro	Some positive data exist, but the data are not sufficient for classification
styrene	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
succinic anhydride	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
methyl methacrylate	Ingestion	Rat	Not carcinogenic
methyl methacrylate	Inhalation	Human	Not carcinogenic
		and	
		animal	
styrene	Ingestion	Mouse	Carcinogenic.
styrene	Inhalation	Human	Carcinogenic.
		and	
		animal	

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Tetrahydrofurfuryl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	29 days
Tetrahydrofurfuryl methacrylate	Ingestion	Toxic to female reproduction	Rat	NOAEL 120 mg/kg/day	premating into lactation
Tetrahydrofurfuryl methacrylate	Ingestion	Toxic to development	Rat	NOAEL 120 mg/kg/day	premating into lactation
2-Ethylhexyl methacrylate	Ingestion	Not classified for male reproduction		NOAEL 1,000 mg/kg/day	49 days
2-Ethylhexyl methacrylate	Ingestion	Not classified for female reproduction		NOAEL 300 mg/kg/day	premating into lactation
2-Ethylhexyl methacrylate	Ingestion	Not classified for development		NOAEL 300 mg/kg/day	during gestation
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	56 days
Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
methyl methacrylate	Inhalation	Not classified for male reproduction	Mouse	NOAEL 36.9 mg/l	
methyl methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis
2-hydroxyethyl methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation

2-hydroxyethyl methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000	49 days
				mg/kg/day	
2-hydroxyethyl methacrylate	Ingestion	Not classified for development	Rat	NOAEL	premating &
				1,000	during
				mg/kg/day	gestation
styrene	Ingestion	Not classified for female reproduction	Rat	NOAEL 21	3 generation
				mg/kg/day	_
styrene	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.1	2 generation
		•		mg/l	
styrene	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.1	2 generation
		_		mg/l	_
styrene	Ingestion	Not classified for male reproduction	Rat	NOAEL 400	60 days
		_		mg/kg/day	-
styrene	Ingestion	Not classified for development	Rat	NOAEL 400	during
		•		mg/kg/day	gestation
styrene	Inhalation	Not classified for development	Multiple	NOAEL 2.1	during
		•	animal	mg/l	gestation
			species	_	_

# Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
succinic anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
methyl methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
styrene	Inhalation	auditory system	Causes damage to organs	Multiple animal species	LOAEL 4.3 mg/l	not available
styrene	Inhalation	liver	Causes damage to organs	Mouse	LOAEL 2.1 mg/l	not available
styrene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
styrene	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
styrene	Inhalation	endocrine system	Not classified	Rat	NOAEL Not available	not available
styrene	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2.1 mg/l	not available

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Tetrahydrofurfuryl methacrylate	Ingestion	hematopoietic system   nervous system	Not classified	Rat	NOAEL 300 mg/kg/day	29 days
2-Ethylhexyl methacrylate	Ingestion	heart   endocrine system   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 360 mg/kg/day	90 days
Butanoic acid, 3-oxo-, 2- [(2-methyl-1-oxo-2- propenyl)oxy]ethyl ester	Ingestion	hematopoietic system   nervous system   eyes	Not classified	Rat	NOAEL 500 mg/kg/day	90 days

succinic anhydride	Ingestion	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system	Not classified	Mouse	NOAEL 300 mg/kg/day	13 weeks
methyl methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
methyl methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
methyl methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
methyl methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
methyl methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
styrene	Inhalation	auditory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL not available	occupational exposure
styrene	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
styrene	Inhalation	liver	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 0.85 mg/l	13 weeks
styrene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	LOAEL 1.1 mg/l	not available
styrene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.85 mg/l	7 days
styrene	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.6 mg/l	10 days
styrene	Inhalation	respiratory system	Not classified	Multiple animal species	LOAEL 0.09 mg/l	not available
styrene	Inhalation	heart   gastrointestinal tract   bone, teeth, nails, and/or hair   muscles   kidney and/or bladder	Not classified	Multiple animal species	NOAEL 4.3 mg/l	2 years
styrene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 500 mg/kg/day	8 weeks
styrene	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
styrene	Ingestion	liver   kidney and/or bladder	Not classified	Rat	NOAEL 677 mg/kg/day	6 months
styrene	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 600 mg/kg/day	470 days
styrene	Ingestion	heart   respiratory system	Not classified	Rat	NOAEL 35 mg/kg/day	105 weeks

# **Aspiration Hazard**

Name	Value
styrene	Aspiration hazard

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

# 11.2. Information on other hazards

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

# **SECTION 12: Ecological information**

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

# 12.1. Toxicity

No product test data available.

Material	CAS#	Organism	Type	Exposure	Test endpoint	Test result
Tetrahydrofurfuryl methacrylate	2455-24-5	Fathead minnow	Experimental	96 hours	LC50	34.7 mg/l
Tetrahydrofurfuryl methacrylate	2455-24-5	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Tetrahydrofurfuryl methacrylate	2455-24-5	Green algae	Experimental	72 hours	ErC10	100 mg/l
Tetrahydrofurfuryl methacrylate	2455-24-5	Water flea	Experimental	21 days	NOEC	37.2 mg/l
Acrylate polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-Ethylhexyl methacrylate	688-84-6	Green algae	Experimental	72 hours	ErC50	5.3 mg/l
2-Ethylhexyl methacrylate	688-84-6	Medaka	Experimental	96 hours	LC50	2.8 mg/l
2-Ethylhexyl methacrylate	688-84-6	Water flea	Experimental	48 hours	EC50	4.6 mg/l
2-Ethylhexyl methacrylate	688-84-6	Green algae	Experimental	72 hours	NOEC	0.81 mg/l
2-Ethylhexyl methacrylate	688-84-6	Water flea	Experimental	21 days	NOEC	0.105 mg/l
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Green algae	Experimental	72 hours	ErC50	>312 mg/l
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Water flea	Experimental	48 hours	EC50	>515.4 mg/l
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Green algae	Experimental	72 hours	ErC10	>=161 mg/l
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Activated sludge	Experimental	3 hours	NOEC	320 mg/l
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Water flea	Experimental	48 hours	EL50	>100 mg/l

			_			
Butanoic acid, 3-	21282-97-3	Green algae	Experimental	72 hours	NOEC	11.1 mg/l
oxo-, 2-[(2-methyl- 1-oxo-2-						
propenyl)oxy]ethyl						
ester						
Ashes (residues),	93924-19-7	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
cenospheres						
Ashes (residues),	93924-19-7	Green algae	Experimental	72 hours	EL50	>100 mg/l
cenospheres				1		
Ashes (residues),	93924-19-7	Guppy	Experimental	96 hours	LL50	>100 mg/l
cenospheres Ashes (residues),	93924-19-7	Water flea	Experimental	48 hours	EL50	>100 mg/l
cenospheres	93924-19-7	water flea	Experimental	48 nours	ELSU	>100 mg/1
Ashes (residues),	93924-19-7	Green algae	Experimental	72 hours	NOEL	100 mg/l
cenospheres	73724 17 /	Green argue	Experimental	72 nours	TOLL	100 mg/i
Ashes (residues),	93924-19-7	Water flea	Experimental	21 days	NOEL	100 mg/l
cenospheres			1			
succinic anhydride	108-30-5	Green algae	Analogous	72 hours	ErC50	>100 mg/l
			Compound			
succinic anhydride	108-30-5	Water flea	Analogous	48 hours	EC50	>100 mg/l
	100.20.5	7.1 7:1	Compound	0.61	Y 050	100 7
succinic anhydride	108-30-5	Zebra Fish	Analogous	96 hours	LC50	>100 mg/l
succinic anhydride	108-30-5	Croon algae	Compound Analogous	72 hours	NOEC	100 mg/l
succinic annyuride	108-30-3	Green algae	Compound	72 nours	NOEC	100 mg/1
2-hydroxyethyl	868-77-9	Turbot	Analogous	96 hours	LC50	833 mg/l
methacrylate	000-77-9	Turbot	Compound	70 nours	LC30	033 mg/1
2-hydroxyethyl	868-77-9	Fathead minnow	Experimental	96 hours	LC50	227 mg/l
methacrylate						
2-hydroxyethyl	868-77-9	Green algae	Experimental	72 hours	EC50	710 mg/l
methacrylate			•			
2-hydroxyethyl	868-77-9	Water flea	Experimental	48 hours	EC50	380 mg/l
methacrylate						
2-hydroxyethyl	868-77-9	Green algae	Experimental	72 hours	NOEC	160 mg/l
methacrylate	0.00 == 0				11070	
2-hydroxyethyl	868-77-9	Water flea	Experimental	21 days	NOEC	24.1 mg/l
methacrylate 2-hydroxyethyl	868-77-9	N/A	Experimental	16 hours	EC0	>3,000 mg/l
methacrylate	808-77-9	IN/A	Experimental	10 nours	ECU	23,000 mg/1
2-hydroxyethyl	868-77-9	N/A	Experimental	18 hours	LD50	<98 mg per kg of bodyweight
methacrylate		1771	Experimental	To nours	EBS	yo mg per kg or body weight
methyl	80-62-6	Green algae	Experimental	72 hours	EC50	>110 mg/l
methacrylate			1			
methyl	80-62-6	Rainbow trout	Experimental	96 hours	LC50	>79 mg/l
methacrylate						
methyl	80-62-6	Water flea	Experimental	48 hours	EC50	69 mg/l
methacrylate	00.62.6				11070	110 //
methyl	80-62-6	Green algae	Experimental	72 hours	NOEC	110 mg/l
methacrylate methyl	90.62.6	Water flea	E	21 4	NOEC	27 /1
methyl methacrylate	80-62-6	water flea	Experimental	21 days	NOEC	37 mg/l
methyl	80-62-6	Activated sludge	Experimental	30 minutes	EC20	150 mg/l
methacrylate	80-02-0	Activated studge	Experimental	30 minutes	EC20	130 mg/1
methyl	80-62-6	Soil microbes	Experimental	28 days	NOEC	>1,000 mg/kg (Dry Weight)
methacrylate						-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
styrene	100-42-5	Activated sludge	Experimental	30 minutes	EC50	500 mg/l
styrene	100-42-5	Fathead minnow	Experimental	96 hours	LC50	4.02 mg/l
	1.00.45.5	<u> </u>	<u> </u>		lan control	
styrene	100-42-5	Green algae	Experimental	72 hours	EC50	4.9 mg/l
	1100 42 5	W-t C	F	40.1	IEC50	4.7 //
styrene	100-42-5	Water flea	Experimental	48 hours	EC50	4.7 mg/l
styrono	100-42-5	Graan slaas	Experimental	96 hours	EC10	0.28 mg/l
styrene	100-42-3	Green algae	Experimental	90 HOURS	ECIO	0.28 Hig/I
styrene	100-42-5	Water flea	Experimental	21 days	NOEC	1.01 mg/l
55,10110	1.30 .2.3	Tracer flou	Z.pormonui	21 44,5	1,020	1.01 mg/1
			1	1		

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# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Tetrahydrofurfuryl methacrylate	2455-24-5	Experimental Biodegradation	28 days	BOD	75 %BOD/ThOD (< 10 day window)	OECD 301F - Manometric respirometry
Acrylate polymer	Trade Secret	Data not availbl- insufficient	N/A	N/A	N/A	N/A
2-Ethylhexyl methacrylate	688-84-6	Experimental Biodegradation	28 days	BOD	88 %BOD/ThOD	OECD 301C - MITI test (I)
[2-[(2-Methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Experimental Biodegradation	28 days	BOD	≥80 %BOD/ThOD (< 10 day window)	OECD 301F - Manometric respirometry
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Experimental Biodegradation	28 days	BOD	64 %BOD/ThOD	OECD 301C - MITI test (I)
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	6.5 days (t 1/2)	OECD 111 Hydrolysis func of pH
Ashes (residues), cenospheres	93924-19-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A
succinic anhydride	108-30-5	Hydrolysis product Biodegradation	28 days	Dissolv. Organic Carbon Deplet	96.55 %removal of DOC	OECD 301E - Modif. OECD Screen
succinic anhydride	108-30-5	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	4.3 minutes (t 1/2)	
2-hydroxyethyl methacrylate	868-77-9	Experimental Biodegradation	28 days	BOD	84 %BOD/COD	OECD 301D - Closed bottle test
2-hydroxyethyl methacrylate	868-77-9	Experimental Hydrolysis		Hydrolytic half-life basic pH	10.9 days (t 1/2)	OECD 111 Hydrolysis func of pH
methyl methacrylate	80-62-6	Experimental Biodegradation	14 days	BOD	94 %BOD/ThOD	OECD 301C - MITI test (I)
styrene	100-42-5	Experimental Biodegradation	28 days	BOD	70.9 %BOD/ThOD	
styrene	100-42-5	Experimental Photolysis		Photolytic half-life (in air)	6.64 hours (t 1/2)	

# 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Tetrahydrofurfuryl methacrylate	2455-24-5	Experimental Bioconcentration		Log Kow	1.76	OECD 117 log Kow HPLC method
Acrylate polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Ethylhexyl methacrylate	688-84-6	Experimental Bioconcentration	96 hours	Bioaccumulation factor	37	OECD305-Bioconcentration
2-Ethylhexyl methacrylate	688-84-6	Experimental Bioconcentration		Log Kow	4.95	similar to OECD 107
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Experimental Bioconcentration		Log Kow	0.782	EC A.8 Partition Coefficient
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Experimental Bioconcentration		Log Kow	0.9	OECD 107 log Kow shke flsk mtd
Ashes (residues), cenospheres	93924-19-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

succinic anhydride	108-30-5	Experimental	Log Kow	2.44	OECD 117 log Kow HPLC
		Bioconcentration			method
2-hydroxyethyl	868-77-9	Experimental	Log Kow	0.42	OECD 107 log Kow shke
methacrylate		Bioconcentration			flsk mtd
methyl	80-62-6	Experimental	Log Kow	1.38	OECD 107 log Kow shke
methacrylate		Bioconcentration	_		flsk mtd
styrene	100-42-5	Experimental	Log Kow	2.96	
		Bioconcentration			

#### 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Tetrahydrofurfuryl methacrylate	2455-24-5	Modeled Mobility in Soil	Koc	25 l/kg	Episuite <sup>TM</sup>
2-Ethylhexyl methacrylate	688-84-6	Modeled Mobility in Soil	Koc	2,348 l/kg	Episuite <sup>TM</sup>
[2-[(2-Methyl-1- oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6	Modeled Mobility in Soil	Koc	1 l/kg	ACD/Labs ChemSketch™
Butanoic acid, 3- oxo-, 2-[(2-methyl- 1-oxo-2- propenyl)oxy]ethyl ester	21282-97-3	Experimental Mobility in Soil	Koc	51-129 l/kg	OECD 106 Adsp-Desb Batch Equil
2-hydroxyethyl methacrylate	868-77-9	Experimental Mobility in Soil	Koc	42.7 l/kg	
methyl methacrylate	80-62-6	Experimental Mobility in Soil	Koc	8.7-72 l/kg	

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

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

#### 12.6. Other adverse effects

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

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

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. If no other disposal options are available, waste product—that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. 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.

ADR/IMDG/IATA: Not restricted for transport.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN 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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	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

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Ingredient	CAS Nbr	Classification	Regulation
styrene	100-42-5	Grp. 2A: Probable human carc.	International Agency for Research on Cancer
succinic anhydride	108-30-5	Gr. 3: Not classifiable	International Agency for Research on Cancer

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methyl methacrylate 80-62-6 Gr. 3: Not classifiable International Agency for Research on Cancer

#### Global inventory status

Contact 3M for more information.

# COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of		
		Lower-tier	Upper-tier requirements	
		requirements		
methyl methacrylate	80-62-6	50	200	
styrene	100-42-5	10	50	

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

No chemicals listed

# 15.2. Chemical Safety Assessment

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

# **SECTION 16: Other information**

#### List of relevant H statements

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### **Revision information:**

GB Section 02: CLP Ingredient table information was added.

GB Section 02: Other hazards phrase information was added.

GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was added.

GB Section 04: Information on toxicological effects information was added.

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- GB Section 12: Classification Warning information was added.
- GB Section 15: Carcinogenicity information information was added.
- GB Section 15: Chemical Safety Assessment information was added.
- GBSDS Section 14 Transport in bulk Main Heading information was added.
- GBSDS Section 14 UN Number information was added.
- CLP: Ingredient table information was deleted.
- Label: CLP Percent Unknown information was deleted.
- Section 02: Label Elements: GB Percent Unknown information was added.
- Section 2: Other hazards phrase information was deleted.
- Section 3: Composition/Information of ingredients table information was added.
- Section 3: Composition/Information of ingredients table information was deleted.
- Section 04: First Aid Symptoms and Effects (CLP) information was deleted.
- Section 04: Information on toxicological effects information was deleted.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Classification disclaimer information was deleted.
- Section 11: GB Classification disclaimer information was added.
- Section 11: GB No endocrine disruptor information available warning information was added.
- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: No endocrine disruptor information available warning information was deleted.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Target Organs Repeated Table information was modified.
- Section 12: 12.6. Endocrine Disrupting Properties information was deleted.
- Section 12: 12.6. Other adverse effects information was added.
- Section 12: 12.7. Other adverse effects information was deleted.
- Section 12: Classification Warning information was deleted.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Mobility in soil information information was modified.
- Prints No Data if Adverse effects information is not present information was deleted.
- Section 12: No endocrine disruptor information available warning information was added.
- Section 12: No endocrine disruptor information available warning information was deleted.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.
- Section 14 Marine transport in bulk according to IMO instruments Main Heading information was deleted.
- Section 14 UN Number information was deleted.
- Section 15: Carcinogenicity information information was deleted.
- Section 15: Chemical Safety Assessment information was deleted.
- Section 15: Seveso Substance Text information was added.
- Section 15: Seveso Substance Text information was deleted.

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

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

- Section 16: Web address information was added.
- Section 16: Web address information was deleted.

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

#### 3M SDSs for Great Britain are available at www.3M.com/uk

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

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