

## **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 ESPE Relyx Unicem Aplicap/Maxicap

Product identification numbers

70-2011-1559-2 70-2011-1563-4 70-2011-1777-0 70-2011-1979-2 70-2011-1983-4

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

Dental Product

#### 1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com Website: www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

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

18-0262-8, 17-9608-5

#### TRANSPORTATION INFORMATION

70-2011-1559-2, 70-2011-1563-4, 70-2011-1777-0, 70-2011-1979-2, 70-2011-1983-4

**ADR/RID:** NOT RESTRICTED - EXEMPTED ACCORDING CHAPTER 3.5.1.4 (E1), --. **IMDG-CODE:** NOT RESTRICTED - EXEMPTED ACCORDING CHAPTER 3.5.1.4 (E1).

ICAO/IATA: NOT RESTRICTED - EXEMPTED ACCORDING CHAPTER 2.6.10DE MINIMIS QUANTITIES (E1).

#### KIT LABEL

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#### 2.2. Label elements

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

#### **Symbols**

Xi Irritant.

#### **Contains:**

Consult the component labels for disclosable ingredients.

#### Risk phrases

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

#### Safety phrases

Avoid contact with skin.

S37/39A Wear suitable gloves and eye protection.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Notes on labelling

This product is exempt from labelling per Directive 1999/45/EC as it is defined as a medical device according to Directive 93/42/EEC and is invasive or comes into contact with the human body.

#### **Revision information:**

No revision information is available.

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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<sup>TM</sup> ESPE<sup>TM</sup> Relyx<sup>TM</sup> Unicem<sup>TM</sup> Aplicap/Maxicap Liquid

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

#### **Identified uses**

Dental Product, for use by dental professionals.

#### 1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

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

## Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive Indication of danger

Irritant; Xi; R41

Sensitizing; R43

For full text of R phrases, see Section 16.

#### 2.2. Label elements

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

**Symbols** 

Xi Irritant.

Daga, 1 a

#### 3MTM ESPETM RelyxTM UnicemTM Aplicap/Maxicap Liquid

#### **Contains:**

2,2'-Ethylenedioxydiethyl dimethacrylate

Risk phrases

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

Safety phrases

S24 Avoid contact with skin.

S37/39A Wear suitable gloves and eye protection.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Notes on labelling

This product is exempt from labelling per Directive 1999/45/EC as it is defined as a medical device according to Directive 93/42/EEC and is invasive or comes into contact with the human body.

#### 2.3. Other hazards

None known.

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

Ingredient	CAS Nbr	<b>EU Inventory</b>	% by Wt	Classification
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	EINECS 203-	25 - 35	R43 (Self Classified)
		652-6		
				Skin Sens. 1, H317 (Self
				Classified)
(1-Methylethylidene)bis(4,1-phenyleneoxy-	27689-12-9	EINECS 248-	22 - 34	
3,1-propanediyl) bismethacrylate		607-1		

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

Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

#### 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.

#### Skin contact

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

#### Inhalation

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

#### If swallowed

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

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

See Section 11.1 Information on toxicological effects

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> Relyx<sup>TM</sup> Unicem<sup>TM</sup> Aplicap/Maxicap Liquid

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

Not applicable

## **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids and solids such as dry chemical or carbon dioxide.

#### 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. Carbon dioxide.

During combustion.

During combustion.

#### 5.3. Advice for fire-fighters

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

## **SECTION 6: Accidental release measures**

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

#### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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

#### 7.1. Precautions for safe handling

Do not get in eyes, on skin, or on clothing. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) 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. Wash contaminated clothing before reuse.

#### 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)

#### 3M<sup>TM</sup> ESPE<sup>TM</sup> Relyx<sup>TM</sup> Unicem<sup>TM</sup> Aplicap/Maxicap Liquid

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.

#### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use with appropriate local exhaust ventilation.

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

#### Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

#### Skin/hand protection

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

#### Respiratory protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

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

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

Physical state Liquid.
Specific Physical Form: Liquid.

Appearance/Odour Clear yellow liquid with acrylate odour.

pH 2.3 Boiling point/boiling range > 93.3 °C

**Melting point** *No data available.* 

Flammability (solid, gas) Flammable Liquid: Category 4.

**Explosive properties**Not classified **Oxidising properties**Not classified

Flash point 64 °C [Test Method: Tagliabue closed cup]

Autoignition temperatureNo data available.Flammable Limits(LEL)No data available.Flammable Limits(UEL)No data available.Vapour pressureNo data available.

**Relative density** 1.14 [*Ref Std*:WATER=1]

Water solubility < 63 g/l

**Partition coefficient: n-octanol/water Evaporation rate**No data available.

No data available.

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#### 3MTM ESPETM RelyxTM UnicemTM Aplicap/Maxicap Liquid

Vapour density No data available.

**Viscosity** No data available.

**Density** 1.14 g/ml

9.2. Other information

**Percent volatile**No data available.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

Stable.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

Heat.

#### 10.5 Incompatible materials

None known.

## 10.6 Hazardous decomposition products

Substance

None known.

**Condition** 

## **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

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

#### 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.

#### Skin contact

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

#### Inhalation

Dagge 5

## 3M<sup>TM</sup> ESPE<sup>TM</sup> Relyx<sup>TM</sup> Unicem<sup>TM</sup> Aplicap/Maxicap Liquid

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

#### Ingestion

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

## **Toxicological Data**

#### **Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
2,2'-Ethylenedioxydiethyl dimethacrylate	Ingestion	Rat	LD50 10,837 mg/kg
(1-Methylethylidene)bis(4,1- phenyleneoxy-3,1-propanediyl) bismethacrylate	Ingestion	Rat	LD50 > 17,600 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Guinea pig	Mild irritant
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-	Rabbit	No significant irritation
propanediyl) bismethacrylate		

#### **Serious Eye Damage/Irritation**

Stricts Lyt Duming of 11110001011						
Name	Species	Value				
2,2'-Ethylenedioxydiethyl dimethacrylate		Moderate irritant				
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-	Rabbit	Mild irritant				
propanediyl) bismethacrylate						

#### **Skin Sensitisation**

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Human and animal	Sensitising
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-	Guinea pig	Not sensitizing
propanediyl) bismethacrylate		

#### **Respiratory Sensitisation**

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate		No data available
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-		No data available
propanediyl) bismethacrylate		

#### **Germ Cell Mutagenicity**

Name	Route	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-	In Vitro	Not mutagenic
propanediyl) bismethacrylate		

## Carcinogenicity

Name	Route	Species	Value
2,2'-Ethylenedioxydiethyl	Dermal	Mouse	Not carcinogenic
dimethacrylate			
(1-Methylethylidene)bis(4,1-			No data available
phenyleneoxy-3,1-propanediyl)			
bismethacrylate			

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## **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
2,2'-	Ingestion	Not toxic to female	Mouse	NOAEL 1	1 generation
Ethylenedioxydiethyl		reproduction		mg/kg/day	
dimethacrylate					
2,2'-	Ingestion	Not toxic to male	Mouse	NOAEL 1	1 generation
Ethylenedioxydiethyl		reproduction		mg/kg/day	
dimethacrylate					
2,2'-	Ingestion	Not toxic to	Mouse	NOAEL 1	1 generation
Ethylenedioxydiethyl		development		mg/kg/day	
dimethacrylate					
(1-		No data available			
Methylethylidene)bis					
(4,1-phenyleneoxy-					
3,1-propanediyl)					
bismethacrylate					

## Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2,2'- Ethylenediox ydiethyl dimethacrylat e			No data available			
(1- Methylethylid ene)bis(4,1- phenyleneoxy -3,1- propanediyl) bismethacryla te			No data available			

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2,2'- Ethylenediox ydiethyl dimethacrylat e	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 833 mg/kg/day	78 weeks
2,2'- Ethylenediox ydiethyl dimethacrylat e	Dermal	blood	All data are negative	Mouse	NOAEL 833 mg/kg/day	78 weeks
(1- Methylethylid ene)bis(4,1- phenyleneoxy -3,1- propanediyl) bismethacryla te			No data available			

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#### 3MTM ESPETM RelyxTM UnicemTM Aplicap/Maxicap Liquid

#### **Aspiration Hazard**

Name	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Not an aspiration hazard
(1-Methylethylidene)bis(4,1-phenyleneoxy-3,1-propanediyl)	Not an aspiration hazard
bismethacrylate	

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

## **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

#### 12.1. Toxicity

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### **Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

#### 12.2. Persistence and degradability

No test data available.

#### 12.3 : Bioaccumulative potential

No test data available.

#### 12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

Dispose of completely cured (or polymerised) 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

#### 3MTM ESPETM RelyxTM UnicemTM Aplicap/Maxicap Liquid

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)

180106\* Chemicals consisting of or containing dangerous substances.

## **SECTION 14: Transportation information**

ADR: Not restricted for transport. IMDG: Not restricted for transport. IATA: Not restricted for transport.

## **SECTION 15: Regulatory information**

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

#### Global inventory status

Contact 3M for more information.

#### 15.2. Chemical Safety Assessment

Not applicable

#### **SECTION 16: Other information**

#### List of relevant H statements

H317 May cause an allergic skin reaction.

#### List of relevant R-phrases

R43 May cause sensitisation by skin contact.

#### **Revision information:**

No revision information is available.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

## 3M United Kingdom MSDSs are available at www.3M.com/uk



## **Safety Data Sheet**

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**Transportation version number:** 1.00 (04/09/2012)

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 ESPE RelyX Unicem Aplicap/Maxicap Powder

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

#### **Identified uses**

Dental Product

#### 1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

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

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

This product is not classified as hazardous according to EU Directive 1999/45/EC.

#### 2.2. Label elements

#### Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols None.

#### **Contains:**

No ingredients are assigned to the label.

Risk phrases None. Safety phrases None.

#### Special provisions concerning the labelling of certain substances

Contains Sodium Persulfate. May produce an allergic reaction.

#### 2.3. Other hazards

None known.

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

Ingredient	CAS Nbr	<b>EU Inventory</b>	% by Wt	Classification
Glass, oxide, chemicals	65997-17-3	EINECS 266-	85 - 95	
		046-0		
2-Propenoic acid, 2-methyl-, 3-	122334-95-6	EINECS 310-	5 - 10	
(trimethoxysilyl)propyl ester, reaction		178-4		
products with vitreous silica				
Substituted Pyrimidine	Trade Secret		1 - 5	
Calcium Hydroxide	1305-62-0	EINECS 215-	1 - 5	Xi:R41 (Vendor)
		137-3		
				Eye Dam. 1, H318 (Vendor)
Disodium peroxodisulphate	7775-27-1	EINECS 231-	< 1	O:R8; Xn:R22; Xi:R36-37-38;
		892-1		R42-43 (Vendor)
				Ox. Sol. 3, H272; Acute Tox. 4,
				H302; Skin Irrit. 2, H315; Eye
				Irrit. 2, H319; Resp. Sens. 1,
				H334; Skin Sens. 1, H317;
				STOT SE 3, H335 (Vendor)

Please see section 16 for the full text of any R phrases and H statements referred to in this section Please refer to section 15 for the any applicable Notas that have been applied to the above components

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

#### Eye contact

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

#### Inhalation

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

#### If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

## **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

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

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

None inherent in this product.

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

**Substance** 

**Condition** 

None known. During combustion.

#### 5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

#### **SECTION 6: Accidental release measures**

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

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Collect as much of the spilled material as possible. Sweep up. Vacuum or sweep up. Warning: A motor could be an ignition source and cause flammable gases or vapours or dust in the spill area to burn or explode. Seal the container.

#### 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 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. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Do not use in a confined area or areas with little or no air movement.

## 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

**Ingredient** CAS Nbr Limit type **Additional comments** Agency Calcium Hydroxide 1305-62-0 Health and TWA:5 mg/m3

Safety Comm.

(UK)

Glass filaments 65997-17-3 Health and TWA(as fiber):5 mg/m3(1

> fibers/ml) Safety Comm.

(UK)

Glass, oxide, chemicals 65997-17-3 Manufacturer TWA(as dust):10 mg/m3

determined

Health and Safety Comm. (UK): UK Health and Safety Commission

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m³: milligrams per cubic metre

CEIL: Ceiling

#### 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

The following eye protection(s) are recommended: Safety glasses with side shields.

#### Skin/hand protection

Wear protective gloves. Skin protection is not required. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

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

Physical state Solid. Specific Physical Form: Powder

Appearance/Odour Odourless powders of different colours.

Not applicable. Boiling point/boiling range Not applicable. No data available. Melting point Not classified Flammability (solid, gas) **Explosive properties** Not classified

Oxidising propertiesNot classifiedFlash pointNot applicable.Autoignition temperatureNot applicable.Flammable Limits(LEL)No data available.Flammable Limits(UEL)No data available.Vapour pressureNot applicable.Relative densityNo data available.

Water solubility Negligible

Partition coefficient: n-octanol/waterNo data available.Evaporation rateNot applicable.Vapour densityNot applicable.

Viscosity Not applicable.

Density Not applicable.
> 1 g/ml

#### 9.2. Other information

## **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

None known.

#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

<u>Substance</u> Condition

None known.

## **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

#### Eye contact

Contact with the eyes during product use is not expected to result in significant irritation. Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

#### Skin contact

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

#### 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.

#### Ingestion

May be harmful if swallowed.

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### **Toxicological Data**

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE2,633
			mg/kg
Glass, oxide, chemicals			No data available
2-Propenoic acid, 2-methyl-, 3-			No data available
(trimethoxysilyl)propyl ester,			
reaction products with vitreous silica			
Calcium Hydroxide			No data available
Substituted Pyrimidine			No data available
Disodium peroxodisulphate			No data available

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Glass, oxide, chemicals		No data available
2-Propenoic acid, 2-methyl-, 3-		No data available
(trimethoxysilyl)propyl ester, reaction products with		
vitreous silica		
Calcium Hydroxide		No data available
Substituted Pyrimidine		No data available
Disodium peroxodisulphate		No data available

Serious Eve Damage/Irritation

Serious Lye Damage/Hillation	School Lyc Damage/Hittation				
Name	Species	Value			
Glass, oxide, chemicals		No data available			
2-Propenoic acid, 2-methyl-, 3-		No data available			
(trimethoxysilyl)propyl ester, reaction products					
with vitreous silica					
Calcium Hydroxide		No data available			
Substituted Pyrimidine		No data available			
Disodium peroxodisulphate		No data available			

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## **Skin Sensitisation**

Name	Species	Value
Glass, oxide, chemicals		No data available
2-Propenoic acid, 2-methyl-, 3-		No data available
(trimethoxysilyl)propyl ester, reaction products with		
vitreous silica		
Calcium Hydroxide		No data available
Substituted Pyrimidine		No data available
Disodium peroxodisulphate		No data available

**Respiratory Sensitisation** 

Name	Species	Value	
Glass, oxide, chemicals		No data available	
2-Propenoic acid, 2-methyl-, 3-		No data available	
(trimethoxysilyl)propyl ester, reaction products			
with vitreous silica			
Calcium Hydroxide		No data available	
Substituted Pyrimidine		No data available	
Disodium peroxodisulphate		No data available	

**Germ Cell Mutagenicity** 

Name	Route	Value
Glass, oxide, chemicals		No data available
2-Propenoic acid, 2-methyl-, 3-		No data available
(trimethoxysilyl)propyl ester, reaction products with		
vitreous silica		
Calcium Hydroxide		No data available
Substituted Pyrimidine		No data available
Disodium peroxodisulphate		No data available

Carcinogenicity

Name	Route	Species	Value
Glass, oxide, chemicals	Inhalation		Carcinogenic.
2-Propenoic acid, 2-methyl-, 3-			No data available
(trimethoxysilyl)propyl ester,			
reaction products with vitreous silica			
Calcium Hydroxide			No data available
Substituted Pyrimidine			No data available
Disodium peroxodisulphate			No data available

## Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	<b>Exposure Duration</b>
Glass, oxide, chemicals		No data available			
2-Propenoic acid, 2- methyl-, 3- (trimethoxysilyl)prop yl ester, reaction products with vitreous silica		No data available			
Calcium Hydroxide		No data available			
Substituted Pyrimidine		No data available			
Disodium peroxodisulphate		No data available			

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## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Glass, oxide, chemicals	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
2-Propenoic acid, 2- methyl-, 3- (trimethoxysil yl)propyl ester, reaction products with vitreous silica			No data available			
Calcium Hydroxide			No data available			
Substituted Pyrimidine			No data available			
Disodium peroxodisulph ate			No data available			

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target	Value	Species	Test result	Exposure Duration
Glass, oxide, chemicals		Organ(s)	No data available			Duration
2-Propenoic acid, 2- methyl-, 3- (trimethoxysil yl)propyl ester, reaction products with vitreous silica			No data available			
Calcium Hydroxide			No data available			
Substituted Pyrimidine			No data available			
Disodium peroxodisulph ate			No data available			

## **Aspiration Hazard**

rispiration mazara	
Name	Value
Glass, oxide, chemicals	Not an aspiration hazard
2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, reaction	Not an aspiration hazard
products with vitreous silica	
Calcium Hydroxide	Not an aspiration hazard
Substituted Pyrimidine	Not an aspiration hazard
Disodium peroxodisulphate	Not an 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.

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## **SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

#### 12.1. Toxicity

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available. No component test data available.

#### 12.2. Persistence and degradability

No test data available.

#### 12.3: Bioaccumulative potential

No test data available.

#### 12.4. Mobility in soil

Please contact manufacturer for more details

## 12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

#### 12.6. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

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

Incinerate uncured product in a permitted waste incineration facility. Dispose of completely cured (or polymerised) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. 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.

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)

180106\* Chemicals consisting of or containing dangerous substances.

#### **SECTION 14: Transportation information**

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ADR: Not restricted for transport. IMDG: Not restricted for transport. IATA: Not restricted for transport.

## **SECTION 15: Regulatory information**

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

#### Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA.

#### 15.2. Chemical Safety Assessment

Not applicable

#### **SECTION 16: Other information**

#### List of relevant H statements

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

## List of relevant R-phrases

R22	Harmful if swallowed.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

R41 Risk of serious damage to eyes.
R42 May cause sensitisation by inhalation.
R43 May cause sensitisation by skin contact.

R8 Contact with combustible material may cause fire.

#### **Revision information:**

No revision information is available.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

#### 3M United Kingdom MSDSs are available at www.3M.com/uk

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