

Safety Data Sheet

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

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

1.1. Product identifier

3M Clinpro Sealant

Product Identification Numbers

70-2010-3148-4 70-2010-3152-6

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

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

+44 (0)1344 858 000 **Telephone:** tox.uk@mmm.com E Mail: 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**

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

Not applicable

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	EU Inventory	% by Wt	Classification
2,2'-Ethylenedioxydiethyl dimethacrylate	109-16-0	EINECS 203- 652-6	40 - 50	R43 (Self Classified) Skin Sens. 1, H317 (Self Classified)
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	1565-94-2	EINECS 216- 367-7	40 - 50	R43 (Self Classified) Skin Sens. 1B, H317 (Self Classified)
Dichlorodimethylsilane, reaction products with silica	68611-44-9	EINECS 271- 893-4	5 - 10	
Tetrabutylammonium tetrafluoroborate	429-42-5	EINECS 207- 058-8	< 5	
Diphenyliodonium hexafluorophosphate	58109-40-3	EINECS 261- 134-5	<1	T:R25; R52 (Self Classified) Acute Tox. 2, H300 (Self Classified)
Triphenylstibine	603-36-1	EINECS 210- 037-6	< 0.5	Xn:R20; N:R51/53 - Nota 1,A (EU) T:R25 (Self Classified) Acute Tox. 4, H332; Aquatic Chronic 2, H411 - Nota 1,A (CLP) Acute Tox. 3, H301 (Self Classified)
Ethyl 4-dimethylaminobenzoate	10287-53-3	EINECS 233- 634-3	< 0.5	N:R51/53 (Self Classified) Aquatic Chronic 2, H411 (Self Classified)
Titanium dioxide	13463-67-7	EINECS 236- 675-5	< 0.5	
Hydroquinone	123-31-9	EINECS 204- 617-8	< 0.05	Carc.Cat.3:R40; Muta.Cat.3:R68; Xn:R22; Xi:R41; N:R50; R43 (EU) Acute Tox. 4, H302; Eye Dam. 1, H318; Skin Sens. 1B, H317; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 1, H400,M=10 (CLP) Aquatic Chronic 1, H410,M=1 (Self Classified)

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

Inhalation

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

Skin contact

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

Eve contact

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

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide.

Carbon dioxide.

Condition

During combustion.

During combustion.

5.3. Advice for fire-fighters

No special protective actions for fire-fighters 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

Page: 3 of 16

Contain spill. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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

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. 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.

7.2. Conditions for safe storage including any incompatibilities

Not applicable.

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	Agency	Limit type	Additional comments
Hydroquinone	123-31-9	Health and	TWA: 0.5 mg/m ³	
		Safety Comm.		
		(UK)		
Titanium dioxide	13463-67-7	Health and	TWA(Inhalable):10	
		Safety Comm.	mg/m3;TWA(respirable):4	
		(UK)	mg/m³	
Antimony trioxide	603-36-1	Health and	TWA(as Sb):0.5 mg/m3	
		Safety Comm.		
		(UK)		
TY II IOO GOOD ATTO THE TY	1.1 100.000			

Health and Safety Comm. (UK): 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 in a well-ventilated area.

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

Page: 4 of 16

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

Skin/hand protection

See Section 7.1 for additional information on skin protection.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.
Specific Physical Form: Liquid.

Appearance/Odour Characteristic odour, Clear to slight yellow

Odour thresholdNo data available.pHNo data available.Boiling point/boiling rangeNo data available.Melting pointNot applicable.Flammability (solid, gas)Not applicable.Explosive propertiesNot classifiedOxidising propertiesNot classified

Flash point $> 93 \,^{\circ}\text{C} \, (200 \,^{\circ}\text{F})$

Autoignition temperature

Flammable Limits(LEL)

Flammable Limits(UEL)

No data available.

No data available.

No data available.

<=186,158.4 Pa [@ 55 °C] Vapour pressure Relative density 1.2 [Ref Std:WATER=1] Water solubility No data available. No data available. Solubility- non-water Not applicable. Partition coefficient: n-octanol/water No data available. **Evaporation rate** No data available. Vapour density **Decomposition temperature** No data available.

Viscosity approximately 1,000 mm²/sec

Density 1.2 g/ml

9.2. Other information

Volatile organic compounds (VOC)No data available.Percent volatileNo data available.VOC less H2O & exempt solventsNo 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

None known

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance None known. **Condition**

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

No health effects are expected.

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.

Eye contact

Moderate 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.

Carcinogenicity:

Exposures needed to cause the following health effect(s) are not expected during normal, intended use:

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 ATE300 - 2,000 mg/kg
2,2'-Ethylenedioxydiethyl dimethacrylate	Ingestion	Rat	LD50 10,837 mg/kg
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
propanediyl)] bismethacrylate			
Dichlorodimethylsilane, reaction products with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dichlorodimethylsilane, reaction products with silica	Inhalation-	Rat	LC50 > 0.691 mg/l

	Dust/Mist		
	(4 hours)		
Dichlorodimethylsilane, reaction products with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Diphenyliodonium hexafluorophosphate	Ingestion	Rat	LD50 32 mg/kg
Triphenylstibine	Inhalation-		LC50 estimated to be 1 - 5 mg/l
	Dust/Mist		
Triphenylstibine	Dermal	Rat	LD50 > 2,000 mg/kg
Triphenylstibine	Ingestion	Rat	LD50 82.5 mg/kg
Ethyl 4-dimethylaminobenzoate	Dermal	Rat	LD50 > 2,000 mg/kg
Ethyl 4-dimethylaminobenzoate	Ingestion	Rat	LD50 > 2,000 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
Hydroquinone	Dermal	Rat	LD50 > 4,800 mg/kg
Hydroquinone	Ingestion	Rat	LD50 302 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Guinea	Mild irritant
	pig	
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	Not	Minimal irritation
bismethacrylate	available	
Dichlorodimethylsilane, reaction products with silica	Rabbit	No significant irritation
Diphenyliodonium hexafluorophosphate	Rabbit	No significant irritation
Ethyl 4-dimethylaminobenzoate	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
Hydroquinone	Human	Minimal irritation
	and	
	animal	

Serious Eye Damage/Irritation

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate		Moderate irritant
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	Not	Moderate irritant
bismethacrylate	available	
Dichlorodimethylsilane, reaction products with silica	Rabbit	No significant irritation
Diphenyliodonium hexafluorophosphate	Rabbit	Mild irritant
Ethyl 4-dimethylaminobenzoate	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation
Hydroquinone		Severe irritant

Skin Sensitisation

Name	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Human	Sensitising
	and	
	animal	
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	Guinea	Sensitising
bismethacrylate	pig	
Dichlorodimethylsilane, reaction products with silica	Human	Not sensitizing
	and	
	animal	
Titanium dioxide	Human	Not sensitizing
	and	
	animal	
Hydroquinone	Guinea	Sensitising
	pig	

Respiratory Sensitisation

Name	Species	Value

Germ Cell Mutagenicity

Name		Route	Value

Overall product	In vivo	Not mutagenic
2,2'-Ethylenedioxydiethyl dimethacrylate	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	In Vitro	Some positive data exist, but the data are not
bismethacrylate		sufficient for classification
Dichlorodimethylsilane, reaction products with silica	In Vitro	Not mutagenic
Diphenyliodonium hexafluorophosphate	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
Hydroquinone	In Vitro	Some positive data exist, but the data are not
		sufficient for classification
Hydroquinone	In vivo	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2,2'-Ethylenedioxydiethyl dimethacrylate	Dermal	Mouse	Not carcinogenic
Dichlorodimethylsilane, reaction products with silica	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.
Hydroquinone	Dermal	Mouse	Not carcinogenic
Hydroquinone	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
2,2'-Ethylenedioxydiethyl dimethacrylate	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
2,2'-Ethylenedioxydiethyl dimethacrylate	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 1 mg/kg/day	1 generation
2,2'-Ethylenedioxydiethyl dimethacrylate	Ingestion	Not toxic to development	Mouse	NOAEL 1 mg/kg/day	1 generation
(1-methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Ingestion	Not toxic to female reproduction	Mouse	NOAEL 0.8 mg/kg/day	premating & during gestation
(1-methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Ingestion	Not toxic to male reproduction	Mouse	NOAEL 0.8 mg/kg/day	premating & during gestation
(1-methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Ingestion	Not toxic to development	Mouse	NOAEL 0.8 mg/kg/day	premating & during gestation
Dichlorodimethylsilane, reaction products with silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dichlorodimethylsilane, reaction products with silica	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dichlorodimethylsilane, reaction products with silica	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Hydroquinone	Ingestion	Not toxic to female reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
Hydroquinone	Ingestion	Not toxic to male reproduction	Rat	NOAEL 150 mg/kg/day	2 generation
Hydroquinone	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesis

Target Organ(s)

Page: 8 of 16

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Diphenyliodonium hexafluorophosphate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	Irritation Equivocal	
Hydroquinone	Ingestion	nervous system	May cause damage to organs	Rat	NOAEL Not available	not applicable
Hydroquinone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg	not applicable

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
2,2'-Ethylenedioxydiethyl dimethacrylate	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'-Ethylenedioxydiethyl dimethacrylate	Dermal	blood	All data are negative	Mouse	NOAEL 833 mg/kg/day	78 weeks
(1- methylethylidene)bis[4,1- phenyleneoxy(2-hydroxy- 3,1-propanediyl)] bismethacrylate	Ingestion	endocrine system liver nervous system kidney and/or bladder	All data are negative	Mouse	NOAEL 0.8 mg/kg/day	premating & during gestation
Dichlorodimethylsilane, reaction products with silica	Inhalation	respiratory system silicosis	All data are negative	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 0.010 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	All data are negative	Human	NOAEL Not available	occupational exposure
Hydroquinone	Ingestion	blood	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	40 days
Hydroquinone	Ingestion	bone marrow liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	9 weeks
Hydroquinone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 50 mg/kg/day	15 months
Hydroquinone	Ocular	eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

Name	Value

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
(1-	1565-94-2	Fathead	Estimated	96 hours	LC50	1.1 mg/l
methylethylide		minnow				
ne)bis[4,1-						
phenyleneoxy(
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylat						
e						
Dichlorodimet	68611-44-9	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
hylsilane,						
reaction						
products with						
silica	50511 11 0				7070	100 //
Dichlorodimet	68611-44-9	Green algae	Experimental	72 hours	EC50	>100 mg/l
hylsilane,						
reaction						
products with						
silica Dichlorodimet	68611-44-9	Water flea	Experimental	24 haurr	EC50	>100 mg/l
	68611-44-9	water flea	Experimental	24 hours	ECSU	>100 mg/l
hylsilane, reaction						
products with						
silica						
Diphenyliodon	58109-40-3	Water flea	Experimental	48 hours	EC50	9.5 mg/l
ium	36109-40-3	water fiea	Experimental	46 110015	ECSO	9.3 mg/1
hexafluorophos						
phate						
Hydroquinone	123-31-9	Water flea	Experimental	48 hours	EC50	0.061 mg/l
Hydroquinone	123-31-9	Rainbow trout	Experimental	96 hours	LC50	0.044 mg/l
Hydroquinone	123-31-9	Green Algae	Experimental	72 hours	EC50	0.053 mg/l
Ethyl 4-	10287-53-3	Fathead	Estimated	96 hours	LC50	8.8 mg/l
dimethylamino		minnow				<i>S</i>
benzoate						
Titanium	13463-67-7	Crustacea other	Experimental	96 hours	EC50	>300 mg/l
dioxide			1			
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
dioxide			1			
Titanium	13463-67-7	Sheepshead	Experimental	96 hours	LC50	>240 mg/l
dioxide		Minnow				
Dichlorodimet	68611-44-9	Green algae	Experimental	72 hours	NOEC	>100 mg/l
hylsilane,						
reaction						
products with						
silica						
Hydroquinone	123-31-9	Green Algae	Experimental	72 hours	NOEC	0.0015 mg/l
Hydroquinone	123-31-9	Water flea	Experimental	21 days	NOEC	0.0029 mg/l
Titanium	13463-67-7	Fish	Experimental	30 days	NOEC	>=1,000 mg/l
dioxide						
Titanium	13463-67-7	Water flea	Experimental	30 days	NOEC	3 mg/l
dioxide						
Tetrabutylamm	429-42-5		Data not			% weight
onium			available or			
tetrafluorobora			insufficient for			
te			classification			

2,2'-	109-16-0	D	Oata not		
Ethylenedioxy		ar	vailable or		
diethyl		ir	nsufficient for		
dimethacrylate		cl	lassification		
Triphenylstibin	603-36-1	D	Oata not		
e		a	vailable or		
		ir	nsufficient for		
		cl	lassification		
(1-	1565-94-2	D	Oata not		
methylethylide		ar	vailable or		
ne)bis[4,1-		ir	nsufficient for		
phenyleneoxy(cl	lassification		
2-hydroxy-3,1-					
propanediyl)]					
bismethacrylat					
e					

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Triphenylstibin	603-36-1	Modeled		Photolytic half-	5.4 days (t 1/2)	Other methods
e		Photolysis		life (in air)		
Dichlorodimet	68611-44-9	Data not	N/A	N/A	N/A	N/A
hylsilane,		available or				
reaction		insufficient for				
products with		classification				
silica						
Tetrabutylamm	429-42-5	Data not	N/A	N/A	N/A	N/A
onium		available or				
tetrafluorobora		insufficient for				
te		classification				
2,2'-	109-16-0	Estimated	28 days	BOD	60 % weight	Other methods
Ethylenedioxy		Biodegradation				
diethyl						
dimethacrylate						
1 2	58109-40-3	Data not	N/A	N/A	N/A	N/A
ium		available or				
hexafluorophos		insufficient for				
phate		classification				
(1-	1565-94-2	Estimated	28 days	BOD	33 % weight	OECD 301C - MITI
methylethylide		Biodegradation				test (I)
ne)bis[4,1-						
phenyleneoxy(
2-hydroxy-3,1-						
propanediyl)]						
bismethacrylat						
e	100 01 0		1.4.1	DOD	5 0.0/	OF CD AND AND
Hydroquinone	123-31-9	Experimental	14 days	BOD	70 % weight	OECD 301C - MITI
mt	10160 65 5	Biodegradation	37/1	27/1	27/4	test (I)
Titanium	13463-67-7	Data not	N/A	N/A	N/A	N/A
dioxide		available or				
		insufficient for				
Ed. 1.4	10205 52 3	classification	20.1	DOD	20.0/	OF CD ANIC NUTT
Ethyl 4-	10287-53-3	Estimated	28 days	BOD	29 % weight	OECD 301C - MITI
dimethylamino		Biodegradation				test (I)

Page: 11 of 16

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benzoate	
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12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Triphenylstibin e		Data not available or insufficient for classification	N/A	N/A	N/A	N/A
ium hexafluorophos phate	58109-40-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dichlorodimet hylsilane, reaction products with silica	68611-44-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Tetrabutylamm onium tetrafluorobora te	429-42-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
(1- methylethylide ne)bis[4,1- phenyleneoxy(2-hydroxy-3,1- propanediyl)] bismethacrylat e	1565-94-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulati on factor	9.6	Other methods
Ethyl 4- dimethylamino benzoate	10287-53-3	Estimated Bioconcentrati on		Bioaccumulati on factor	19	Estimated: Bioconcentration factor
2,2'- Ethylenedioxy diethyl dimethacrylate	109-16-0	Experimental Bioaccumulati on		Log Kow	1.88	Other methods
Hydroquinone	123-31-9	Experimental Bioconcentrati on		Log Kow	0.59	Other methods

12.4. Mobility in soil Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

Ingredient	CAS Nbr	PBT/vPvB status
Triphenylstibine	603-36-1	Meets REACH PBT criteria

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

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

70-2010-3148-4, 70-2010-3152-6

Not hazardous for transportation

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
Hydroquinone	123-31-9	Carc. 2	Regulation (EC) No.
			1272/2008, Table 3.1
Hydroquinone	123-31-9	Carc.Cat.3	Regulation (EC) No.
			1272/2008, Table 3.2
Hydroquinone	123-31-9	Gr. 3: Not classifiable	International Agency
			for Research on Cancer
Titanium dioxide	13463-67-7	Grp. 2B: Possible human	International Agency
		carc.	for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the new substance notification requirements of CEPA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R25	Toxic if swallowed.

R40 Limited evidence of a carcinogenic effect.

Risk of serious damage to eyes. R41

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

R52 Harmful to aquatic organisms. Possible risks of irreversible effects. R68

Revision information:

Revision Changes:

Section 1: Product identification numbers heading information was modified.

Section 9: Viscosity information information was modified.

Section 16: List of relevant R phrase information information was modified.

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

Section 9: Flammability (solid, gas) information information was modified.

Copyright information was modified.

Section 8: Occupational exposure limit table information was modified.

Telephone header information was modified.

Company Telephone information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

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

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

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

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

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

Section 11: Health Effects - Ingestion information information was modified.

Section 5: Fire - Extinguishing media information information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Section 6: Accidental release personal information information was modified. Section 6: Accidental release clean-up information information was modified.

Section 7: Precautions safe handling information information was modified.

Section 7: Conditions safe storage information was modified.

Section 8: Appropriate Engineering controls information information was modified.

Section 8: Personal Protection - Eye information information was modified.

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

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

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

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

Section 15: Carcinogenicity heading information was added.

Section 15: Carcinogenicity information information was added.

Section 8: Respiratory protection information information was added.

- Section 15: Carcinogenicity table Regulation column heading information was added.
- Section 15: Carcinogenicity table Ingredient column heading information was added.
- Section 15: Carcinogenicity table CAS No column heading information was added.
- Section 15: Carcinogenicity table Classification column heading information was added.
- Section 12: Component ecotoxicity information information was added.
- Section 12: Persistence and Degradability information information was added.
- Section 12:Bioccumulative potential information information was added.
- Section 12: Component Ecotoxicity table Material column header information was added.
- Section 12: Component Ecotoxicity table CAS No column header information was added.
- Section 12: Component Ecotoxicity table Organism column header information was added.
- Section 12: Component Ecotoxicity table Type column header information was added.
- Section 12: Component Ecotoxicity table Exposure column header information was added.
- Section 12: Component Ecotoxicity table End point column header information was added.
- Section 12: Component Ecotoxicity table Result column header information was added.
- Section 12: Persistence and degradability table Material column header information was added.
- Section 12: Persistence and degradability table CAS No column header information was added.
- Section 12: Persistence and degradability table Test Type column header information was added.
- Section 12: Persistence and degradability table Duration column header information was added.
- Section 12: Persistence and degradability table Test Result column header information was added.
- Section 12: Persistence and degradability table Protocol column header information was added.
- Section 12:Bioccumulative potential table Material column header information was added.
- Section 12:Bioccumulative potential table CAS No column header information was added.
- Section 12:Bioccumulative potential table CAS No column header information was added.
- Section 12:Bioccumulative potential table Test Result column header information was added.
- Section 12:Bioccumulative potential table Protocol column header information was added.
- Section 12:Bioccumulative potential table Test Type column header information was added.
- Section 11: Carcinogenicity heading information was added.
- Section 11: Cancer Hazards information information was added.
- Section 12: PBT/vPvB table CAS No. column heading information was added.
- Section 12: PBT/vPvB table CAS No. column heading information was added.
- Section 12: PBT/vPvB table PBT/vPvB Status column heading information was added.
- Section 12: PBT/vPvB table row information was added.
- Section 12: Persistence and degradability table Study Type column header information was added.
- Section 12:Bioccumulative potential table Test Type column header information was added.
- Section 9: Odour Threshold information was added.
- Section 9: Solubility (non-water) information was added.
- Section 09: Decomposition Temperature information was added.
- Not applicable information was added.
- Section 10: Hazardous decomposition products during combustion text information was added.
- Section 11: Disclosed components not in tables text information was added.
- Section 12: Classification Warning information was added.
- Section 11: Classification disclaimer information was added.
- Section 8: 8.1.1 Biological limit values table heading information was added.
- Section 8: BLV information was added.
- Section 9: Flammability (solid, gas) information information was added.
- Risk phrase information was deleted.
- Safety phrase information was deleted.
- Section 8: Eye/face protection text information was deleted.
- Section 2: Contains heading information was deleted.
- Section 2: Safety phrases heading information was deleted.
- Section 2: Symbol information was deleted.
- Section 2: Label ingredient information information was deleted.
- Section 2: Risk phrases heading information was deleted.
- Section 2: Symbols heading information was deleted.
- Section 12: Acute aquatic hazard information information was deleted.
- Section 12: Chronic aquatic hazard heading information was deleted.

Page: 15 of 16

Section 12: Acute aquatic hazard heading information was deleted.

Section 12: Chronic aquatic hazard information information was deleted.

Prints No Data if Component ecotoxicity information is not present information was deleted.

Prints No Data if Persistence and Degradability information is not present information was deleted.

Prints No Data if Bioccumulative potential information is not present information was deleted.

Section 8: mg/m³ key information was deleted.

Section 8: ppm key information was deleted.

Section 11: Aspiration Hazard Table information was deleted.

Section 11: Classification disclaimer information was deleted.

Section 11: Respiratory Sensitization Table information was deleted.

Section 12: Classification Warning information was deleted.

Section 12: No PBT/vPvB information available warning information was deleted.

Section 8: Personal Protection - Respiratory Information information was deleted.

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

Page: 16 of 16