

3M Health Care Ltd Goods Receiving 3M House 1 Morley Street LOUGHBOROUGH Leicestershire LE11 1EP

*************						s=======			
Material Safety	Data Sheet								
	************					¢23 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	***		
MSDS ID	05-7367-5	RELEASE	DATE:	07/0	9/10	VERSION	-	:	002.00
SUPERSEDES DATE	31/08/10	PRINTED	:	09/0	9/10	PAGE	1	OF	12
Copyright, 2010, downloading of t 3M products is a full with no cha 3M, and (2) neit distributed with	his informat llowed provi nges unless ther the copy	ion for t ded that: prior wri nor the	he pur (1) t tten a origin	rpose the i agree nal i	nforment s re	properly mation is is obtain sold or o	uti s co	pie f f	sing ed in rom
This Safety Data Regulation (EC)	1907/2006 an	d its mod	ifica	tions					
1. IDENTIFICATIO COMPANY/UNDERTAK	ING								
1.1 Identificati 5540 3M(tm) ESPE	on of the su	bstance c	r pre	parat					
3M Product ident	ification nu	mbers							
70-2010-1386-2									
70-2010-1411-8	1 1 70-	2010-1412	-6	1	1 70	-2010-14	13-4	4	- 1
70-2010-1437-3	1 1 70-	2010-2453	1-9	1	1				1
1.2 Use of subst Dental product 1.3 Company/unde	ance/prepara	tion							
Address:	3M United K Bracknell,	ingdom PI	C, 3M	Cent	re,	Cain Road	d,		
E Mail:	tox.uk@mmm.		, 101	- 7111					
Website:									
1.4 Emergency te +44 (0)1344 858		er							

2. HAZARDS IDENTIFICATION



MSDS ID 05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 2 OF 12

: 002.00

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

| May cause sensitisation by skin contact.

Other hazards

Ingredient	CAS Nbr	1	EU Inventory	1	% by weight	Classification
Ceramic materials and wares, chemicals, hydrolysis products with 3-(trimethoxysily l)propyl methacrylate	444758-98- 9 - - - - - -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1	80 - 90	
2,2'-Ethylenediox ydiethyl dimethacrylate	109-16-0		EINECS 203-652-6		5 - 10	R43 (3M)
1-Methylethyliden e)bis[4,1-phenyle neoxy(2-hydroxy-3 ,1-propanediyl)] bismethacrylate	1565-94-2 	1 1 1 1	EINECS 216-367-7	 	5 - 10	R43 (3M)
2-(2H-Benzotriazo 1-2-y1)-p-cresol	2440-22-4	!	EINECS 219-470-5		< 1	R43 (Vendor)

Please see section 16 for the full text of any risk phrases referred to under headings 2 and 3 of this Safety Data Sheet.

4. FIRST AID MEASURES

The following first aid recommendations are based on an assumption



05-7367-5 RELEASE DATE: 07/09/10 VERSION

31/08/10 PRINTED : 09/09/10 PAGE 3 OF 12

: 002.00

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

followed.

Inhalation

Remove person to fresh air. If signs/symptoms develop, get medical

Skin contact

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Eye contact

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Ingestion

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

FIRE FIGHTING MEASURES

Suitable extinguishing media Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g. water, foam).

Unsuitable extinguishing media

Special exposure hazards No unusual fire or explosion hazards are anticipated.

Special instructions for firefighters Water may be used to blanket the fire. Wear full protective equipment and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions



MSDS ID 05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 4 OF 12

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

spill should be cleaned up by qualified personnel. Ventilate the area with fresh air.

Environmental procedures

Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities.

Methods for cleaning up

Please observe precautions from other sections of this Safety Data Sheet. Collect as much of the spilled material as possible. Clean up residue.

7. HANDLING & STORAGE

7.1 Handling

Avoid eye contact. Avoid skin contact. 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. Wash hands after handling and before eating.

7.2 Storage

Store in a cool, dry place.

8.	EXPOSURE	CONTROLS	/PERSONAL	PROTECTION
----	----------	----------	-----------	------------

8.1 Exposure limit values

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

8.2.1 Occupational exposure controls Not applicable.

Respiratory protection

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



MSDS ID 05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 5 OF 12

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

Hand protection

Not determined

Eye/face protection

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

Skin protection Avoid skin contact.

Ingestion
Do not ingest. Wash hands after handling and before eating.

8.2.2 Environmental exposure controls No data available.

9.1 General information	
Physical state	Solid.
Specific Physical Form:	
Appearance/Odour	Slight acrylate odor, Tooth colored and environmental information
======================================	Not applicable.
· · · · · · · · · · · · · · · · · · ·	
	Not applicable.
Boiling point/boiling range	Not applicable.
Boiling point/boiling range	Not applicable.
Boiling point/boiling range Melting point	Not applicable. Not applicable. Not available.



05-7367-5 RELEASE DATE: 07/09/10 VERSION MSDS ID : 002.00 SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 6 OF 12 5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE Flammable limits - LEL | Not applicable. ------Flammable limits - UEL | Not applicable. Vapour pressure | Not applicable. Relative density 2.1 [Ref Std:WATER=1] ------Water solubility | Negligible Partition coefficient: | No data available. n-octanol/water ------Evaporation rate | No data available. Vapour density | Not applicable. ------Density 1 2.1 g/cm3 9.3 Other information Volatile organic No data available. compounds (VOC) 1 Percent volatile | Negligible VOC less H2O & exempt | No data available. solvents 10. STABILITY & REACTIVITY ------Stable. Hazardous polymerisation will not occur. 10.1 Conditions to avoid None known.

10.2 Materials to avoid

None known.



05-7367-5 RELEASE DATE: 07/09/10 VERSION

31/08/10 PRINTED : 09/09/10 PAGE 7 OF 12

: 002.00

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

10.3 Hazardous decomposition products

Substance | Condition

Carbon monoxide. | During combustion. Carbon dioxide. | During combustion.

11. TOXICOLOGICAL INFORMATION

Inhalation

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.

Eye contact

Mild eye irritation: Signs/symptoms may include redness, pain and tearing.

Skin contact

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

Sensitisation

Ingredient	1	CAS Nbr	1	Class description	Ī	Regulation
2-(2H-Benzotriazol-2 -yl)-p-cresol	1	2440-22-4		Sensitiser skin (R43)		Vendor
1-Methylethylidene)b is[4,1-phenyleneoxy(2-hydroxy-3,1-propan ediyl)] bismethacrylate	1 1 1 1	1565-94-2	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	Sensitiser skin (R43)		3M classified
2,2'-Ethylenedioxydi ethyl	1	109-16-0	1	Sensitiser skin (R43)		3M classified



05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 31/08/10 PRINTED : 09/09/10 PAGE 8 OF 12

: 002.00

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

12. ECOLOGICAL INFORMATION

A conservative assessment indicates this product presents a low environmental risk. Components released to the environment through use and disposal are expected to have minimal environmental impact.

12.1 Ecotoxicity

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

- 12.2 Mobility Please contact 3M for more details.
- 12.3 Persistence and degradability No test data available.
- 12.4 Bioaccumulative potential No test data available.
- 12.5 Results of PBT assessment No data available at this time, contact 3M for more details.



MSDS ID 05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 9 OF 12

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

No information available.

| Irritant.

13.	DISPOSAL	CONSIDERATIONS

Waste disposal method: Dispose of waste product in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative: Dispose of waste product in a facility permitted to accept chemical waste. As a disposal alternative, incinerate in an industrial or commercial facility.

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.

contractor.
EU waste code (product as sold)
180110* Amalgam waste from dental care
Since regulations vary, consult applicable regulations or authorities before disposal.
14. TRANSPORTATION INFORMATION
Please refer to the end of this document for transportation information.
15. REGULATORY INFORMATION
Symbols



05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 MSDS ID SUPERSEDES DATE 31/08/10 PRINTED : 09/09/10 PAGE 10 OF 12 5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE 1-Methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate; 2,2'-Ethylenedioxydiethyl dimethacrylate Risk phrases | May cause sensitisation by skin contact. R43 Safety phrases S24 | Avoid contact with skin. ------S37 | Wear suitable gloves. Special provisions concerning the labelling of certain substances Notes on labelling OTHER INFORMATION List of relevant R-phrases R43 | May cause sensitisation by skin contact. Restrictions on use

Global inventory status

For use by dental professionals only.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

Revision information: Revision Changes:

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



05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00 31/08/10 PRINTED : 09/09/10 PAGE 11 OF 12

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

DISCLAIMER: The information on this Safety Data Sheet is based on 3M's experience and is correct to the best of 3M's knowledge at the date of publication. 3M does not accept 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.

05-7367-5 RELEASE DATE: 07/09/10 VERSION : 002.00

31/08/10 PRINTED : 09/09/10 PAGE 12 OF 12

5540 3M(tm) ESPE(tm) VALUX PLUS RESTORATIVE

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

ANNEX: Transport information as per paragraph 14 of the MSDS