



## Safety Data Sheet

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<b>Document group:</b>	21-2114-3	<b>Version number:</b>	3.00
<b>Revision date:</b>	28/11/2013	<b>Supersedes date:</b>	13/11/2013
<b>Transportation version number:</b>	1.00 (13/06/2012)		

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 EXPRESS 2 LIGHT BODY STANDARD BASE

#### 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

#### 2.2. Label elements

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

##### Symbol(s)

None.

##### Contains:

No ingredients are assigned to the label.

## 3M ESPE EXPRESS 2 LIGHT BODY STANDARD BASE

**Risk phrases** None.

**Safety phrases** None.

### Special provisions concerning the labelling of certain substances

This product contains a substance classified as R48/20. Based on the physical form, exposure by inhalation is not expected.

### 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
Siloxanes and silicones, Di-Me, vinyl group-terminated	68083-19-2		40 - 50	
Quartz	14464-46-1	EINECS 238-455-4	30 - 40	Xn:R48/20 (Vendor) STOT RE 2, H373 (Vendor)
Dimethyl methyl hydrogen silicone fluid	68037-59-2		10 - 15	Xn:R20 (Self Classified) Acute Tox. 4, H332 (Self Classified)
Dimethyl siloxane, reaction product with silica	67762-90-7		1 - 10	
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	27306-78-1		1 - 5	Xn:R20; Xi:R36 (Self Classified) Acute Tox. 4, H332; Eye Irrit. 2, H319 (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

No need for first aid is anticipated.

#### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye 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

No need for first aid is anticipated.

**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.  
Irritant vapours or gases.

**Condition**

During combustion.  
During combustion.  
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. Observe precautions from other sections.

**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. 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. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**

Refer to Section 8 and Section 13 for more information

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

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

Store away from heat. Store away from strong bases. 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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Quartz	14464-46-1	Health and Safety Comm. (UK)	TWA(respirable):0.1 mg/m <sup>3</sup>	

Health and Safety Comm. (UK) : UK Health and Safety Commission  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 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

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:  
 Safety glasses with side shields.

##### Skin/hand protection

No chemical protective gloves are required.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Odourless, white
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>Not applicable.</i>
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Relative density	1.2 - 1.3 [Ref Std:WATER=1]

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<b>Water solubility</b>	Nil
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>Vapour density</b>	<i>Not applicable.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	<i>No data available.</i>
<b>Density</b>	1.2 - 1.3 g/cm <sup>3</sup>

### 9.2. Other information

<b>Volatile organic compounds (VOC)</b>	<i>Not applicable.</i>
<b>Percent volatile</b>	<i>Not applicable.</i>
<b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>	<i>Not applicable.</i>

## 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

Alcohols.

Alkali and alkaline earth metals.

Amines.

Finely divided active metals

Strong bases.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## 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.

**3M ESPE EXPRESS 2 LIGHT BODY STANDARD BASE**

**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**

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

**Eye contact**

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

**Ingestion**

No health effects are expected.

**Toxicological Data**

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Siloxanes and silicones, Di-Me, vinyl group-terminated	Dermal	Rabbit	LD50 > 15,440 mg/kg
Siloxanes and silicones, Di-Me, vinyl group-terminated	Ingestion	Rat	LD50 > 15,440 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Dimethyl methyl hydrogen silicone fluid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Dimethyl methyl hydrogen silicone fluid	Inhalation-Dust/Mist (4 hours)	Rat	LC50 4.2 mg/l
Dimethyl methyl hydrogen silicone fluid	Ingestion	Rat	LD50 > 2,000 mg/kg
Dimethyl siloxane, reaction product with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl siloxane, reaction product with silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Dimethyl siloxane, reaction product with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Dermal	Rabbit	LD50 > 2,000 mg/kg
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Inhalation-Dust/Mist (4 hours)	Rat	LC50 2 mg/l
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-	Rabbit	Severe irritant

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(trimethylsiloxy)disiloxanylpropyl ether

#### Skin Sensitisation

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Human and animal	Not sensitizing
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Guinea pig	Not sensitizing

#### Respiratory Sensitisation

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica		Data not available or insufficient for classification
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether		Data not available or insufficient for classification

#### Germ Cell Mutagenicity

Name	Route	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Quartz		Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	In Vitro	Not mutagenic
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	In Vitro	Not mutagenic
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	In vivo	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification
Quartz			Data not available or insufficient for classification
Dimethyl methyl hydrogen silicone fluid			Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether			Data not available or insufficient for classification

#### Reproductive Toxicity

##### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification			
Quartz		Data not available or insufficient for classification			
Dimethyl methyl hydrogen silicone fluid		Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 450 mg/kg/day	prematuring & during gestation

**3M ESPE EXPRESS 2 LIGHT BODY STANDARD BASE****Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification			
Quartz			Data not available or insufficient for classification			
Dimethyl methyl hydrogen silicone fluid			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica			Data not available or insufficient for classification			
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether			Data not available or insufficient for classification			

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification			
Quartz			Data not available or insufficient for classification			
Dimethyl methyl hydrogen silicone fluid			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether			Data not available or insufficient for classification			

**Aspiration Hazard**

Name	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated	Not an aspiration hazard
Quartz	Not an aspiration hazard
Dimethyl methyl hydrogen silicone fluid	Not an aspiration hazard
Dimethyl siloxane, reaction product with silica	Not an aspiration hazard
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	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.

**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**

No product test data available.



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Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Quartz	14464-46-1		Data not available or insufficient for classification			
Dimethyl methyl hydrogen silicone fluid	68037-59-2		Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	67762-90-7		Data not available or insufficient for classification			
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	27306-78-1		Data not available or insufficient for classification			
Siloxanes and silicones, Di-Me, vinyl group-terminated	68083-19-2		Data not available or insufficient for classification			

**12.2. Persistence and degradability**

No test data available.

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Siloxanes and silicones, Di-Me, vinyl group-terminated	68083-19-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl siloxane, reaction product with silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsiloxy)disiloxanyl]propyl ether	27306-78-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl methyl hydrogen silicone fluid	68037-59-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz	14464-46-1	Data not available or insufficient for	N/A	N/A	N/A	N/A

**3M ESPE EXPRESS 2 LIGHT BODY STANDARD BASE**

		classification				
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**12.3 : Bioaccumulative potential**

No test data available.

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Siloxanes and silicones, Di-Me, vinyl group-terminated	68083-19-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz	14464-46-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl siloxane, reaction product with silica	67762-90-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dimethyl methyl hydrogen silicone fluid	68037-59-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycols,polyethylene,methyl 3-[1,3,3,3-tetramethyl-1-(trimethylsilyloxy)disiloxany]propyl ether	27306-78-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**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**

See Section 11.1 Information on toxicological effects

This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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 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

## 3M ESPE EXPRESS 2 LIGHT BODY STANDARD BASE

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)

180107 Chemicals other than those mentioned in 18 01 06

## SECTION 14: Transportation information

ADR/IMDG/IATA: Not restricted for transport.

## SECTION 15: Regulatory information

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

#### Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Quartz	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA.

### 15.2. Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

### List of relevant H statements

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

### List of relevant R-phrases

R20	Harmful by inhalation.
R36	Irritating to eyes.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Revision information:

Revision Changes:

Section 15: Carcinogenicity information information was modified.  
Section 3: Composition/ Information of ingredients table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 8: Occupational exposure limit table information was modified.  
Aspiration Hazard Table information was modified.  
Section 11: Acute Toxicity table information was modified.  
Carcinogenicity Table information was modified.  
Serious Eye Damage/Irritation Table information was modified.  
Germ Cell Mutagenicity Table information was modified.

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Skin Sensitisation Table information was modified.  
Respiratory Sensitisation Table information was modified.  
Reproductive Toxicity Table information was modified.  
Skin Corrosion/Irritation Table information was modified.  
Target Organs - Repeated Table information was modified.  
Target Organs - Single Table information was modified.  
Section 8: Personal Protection - Skin/hand information 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.

**3M United Kingdom MSDSs are available at [www.3M.com/uk](http://www.3M.com/uk)**



## Safety Data Sheet

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<b>Document group:</b>	21-9841-4	<b>Version number:</b>	2.00
<b>Revision date:</b>	28/11/2013	<b>Supersedes date:</b>	13/06/2012
<b>Transportation version number:</b>	1.00 (13/06/2012)		

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 EXPRESS 2 LIGHT BODY STANDARD CATALYST

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

##### Identified uses

Dental material.

#### 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**

#### 2.2. Label elements

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

##### Symbol(s)

None.

##### Contains:

No ingredients are assigned to the label.

## 3M ESPE EXPRESS 2 LIGHT BODY STANDARD CATALYST

**Risk phrases** None.

**Safety phrases** None.

### Special provisions concerning the labelling of certain substances

This product contains a substance classified as R48/20. Based on the physical form, exposure by inhalation is not expected.

### 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
Siloxanes and silicones, Di-Me, vinyl group-terminated	68083-19-2		40 - 50	
Cristobalite	14464-46-1	EINECS 238-455-4	40 - 50	Xn:R48/20 (Vendor) STOT RE 2, H373 (Vendor)
Dimethyl siloxane, reaction product with silica	67762-90-7		1 - 10	
Siloxanes and silicones, di-Me	63148-62-9		1 - 5	
Cobalt aluminate blue spinel	1345-16-0	EINECS 310-193-6	< 0.5	

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

No need for first aid is anticipated.

#### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye 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

No need for first aid is anticipated.

### 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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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. Observe precautions from other sections. 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. 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. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

### 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.

### 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

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Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Cobalt compounds	1345-16-0	Health and Safety Comm. (UK)	TWA(as Co):0.1 mg/m <sup>3</sup>	Respiratory Sensitizer
Quartz	14464-46-1	Health and Safety Comm. (UK)	TWA(respirable):0.1 mg/m <sup>3</sup>	
Silicon dioxide	67762-90-7	Health and Safety Comm. (UK)	TWA(as inhalable dust):6 mg/m <sup>3</sup> ;TWA(as respirable dust):2.4 mg/m <sup>3</sup>	

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

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

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:

Safety glasses with side shields.

##### Skin/hand protection

Skin protection is not required.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Odourless, violet
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>Not applicable.</i>
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>



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<b>Relative density</b>	1.3 - 1.4 [ <i>Ref Std: WATER=1</i> ]
<b>Water solubility</b>	Nil
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>Vapour density</b>	<i>Not applicable.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	<i>No data available.</i>
<b>Density</b>	1.3 - 1.4 g/cm <sup>3</sup>

### 9.2. Other information

<b>Volatile organic compounds (VOC)</b>	<i>Not applicable.</i>
<b>Percent volatile</b>	<i>Not applicable.</i>
<b>VOC less H<sub>2</sub>O &amp; exempt solvents</b>	<i>Not applicable.</i>

## 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

Alkali and alkaline earth metals.

Amines.

Strong acids.

Strong bases.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## 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.

**3M ESPE EXPRESS 2 LIGHT BODY STANDARD CATALYST****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**

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

**Eye contact**

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

**Ingestion**

No health effects are expected.

**Toxicological Data****Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Siloxanes and silicones, Di-Me, vinyl group-terminated	Dermal	Rabbit	LD50 > 15,440 mg/kg
Siloxanes and silicones, Di-Me, vinyl group-terminated	Ingestion	Rat	LD50 > 15,440 mg/kg
Cristobalite	Ingestion		LD50 estimated to be > 5,000 mg/kg
Dimethyl siloxane, reaction product with silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl siloxane, reaction product with silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Dimethyl siloxane, reaction product with silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Siloxanes and silicones, di-Me	Dermal	Rabbit	LD50 > 19,400 mg/kg
Siloxanes and silicones, di-Me	Ingestion	Rat	LD50 > 17,000 mg/kg
Cobalt aluminate blue spinel	Ingestion	Rat	LD50 > 10,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Cristobalite		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Siloxanes and silicones, di-Me	Rabbit	No significant irritation
Cobalt aluminate blue spinel		Data not available or insufficient for classification

**Serious Eye Damage/Irritation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Cristobalite		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Rabbit	No significant irritation
Siloxanes and silicones, di-Me	Rabbit	No significant irritation
Cobalt aluminate blue spinel		Data not available or insufficient for classification

**Skin Sensitisation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Cristobalite		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Human and animal	Not sensitizing

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Siloxanes and silicones, di-Me		Data not available or insufficient for classification
Cobalt aluminate blue spinel		Data not available or insufficient for classification

**Respiratory Sensitisation**

Name	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Cristobalite		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica		Data not available or insufficient for classification
Siloxanes and silicones, di-Me		Data not available or insufficient for classification
Cobalt aluminate blue spinel		Data not available or insufficient for classification

**Germ Cell Mutagenicity**

Name	Route	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification
Cristobalite		Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	In Vitro	Not mutagenic
Siloxanes and silicones, di-Me		Data not available or insufficient for classification
Cobalt aluminate blue spinel		Data not available or insufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification
Cristobalite			Data not available or insufficient for classification
Dimethyl siloxane, reaction product with silica	Not specified.	Mouse	Some positive data exist, but the data are not sufficient for classification
Siloxanes and silicones, di-Me			Data not available or insufficient for classification
Cobalt aluminate blue spinel			Data not available or insufficient for classification

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated		Data not available or insufficient for classification			
Cristobalite		Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl siloxane, reaction product with silica	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Siloxanes and silicones, di-Me		Data not available or insufficient for classification			
Cobalt aluminate blue spinel		Data not available or insufficient for classification			

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification			
Cristobalite			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica			Data not available or insufficient for classification			
Siloxanes and silicones, di-Me			Data not available or insufficient for classification			
Cobalt aluminate blue			Data not available or insufficient			

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spinel			for classification			
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**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Siloxanes and silicones, Di-Me, vinyl group-terminated			Data not available or insufficient for classification			
Cristobalite			Data not available or insufficient for classification			
Dimethyl siloxane, reaction product with silica	Inhalation	respiratory system   silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
Cobalt aluminate blue spinel			Data not available or insufficient for classification			

**Aspiration Hazard**

Name	Value
Siloxanes and silicones, Di-Me, vinyl group-terminated	Not an aspiration hazard
Cristobalite	Not an aspiration hazard
Dimethyl siloxane, reaction product with silica	Not an aspiration hazard
Siloxanes and silicones, di-Me	Not an aspiration hazard
Cobalt aluminate blue spinel	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.

**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**

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Cobalt aluminate blue spinel	1345-16-0	Water flea	Analogous Compound	21 days	Effect Concentration 10%	0.0079 mg/l
Cobalt aluminate blue spinel	1345-16-0	Green algae	Analogous Compound	72 hours	EC50	0.4 mg/l
Cobalt aluminate blue spinel	1345-16-0	Water flea	Analogous Compound	48 hours	EC50	0.397 mg/l
Cobalt aluminate blue spinel	1345-16-0	Rainbow trout	Analogous Compound	96 hours	LC50	1.406 mg/l
Cristobalite	14464-46-1		Data not available or insufficient for classification			

**12.2. Persistence and degradability**

No test data available.

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Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Cristobalite	14464-46-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Cobalt aluminate blue spinel	1345-16-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**12.3 : Bioaccumulative potential**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Cristobalite	14464-46-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Cobalt aluminate blue spinel	1345-16-0	Analogous Compound BCF - Fathead Mi	63 days	Bioaccumulation factor	190	Other methods

**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**

See Section 11.1 Information on toxicological effects

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. 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)**

180107 Chemicals other than those mentioned in 18 01 06

## SECTION 14: Transportation information

ADR/IMDG/IATA: Not restricted for transport.

## SECTION 15: Regulatory information

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

#### Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Cristobalite	14464-46-1	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

#### Global inventory status

Contact 3M for more information.

### 15.2. Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

#### List of relevant H statements

H373 May cause damage to organs through prolonged or repeated exposure.

#### List of relevant R-phrases

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

#### Revision information:

Revision Changes:

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

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

Section 13: EU waste code (product as sold) information information was modified.

Section 16: Regulations - Inventories - EU ONLY information was modified.

Copyright information was modified.

Section 1: Initial issue message information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 11: Acute Toxicity table information was modified.

Carcinogenicity Table information was modified.

Serious Eye Damage/Irritation Table information was modified.

Germ Cell Mutagenicity Table information was modified.

Skin Sensitisation Table information was modified.

Respiratory Sensitisation Table information was modified.

Reproductive Toxicity Table information was modified.

Skin Corrosion/Irritation Table information was modified.

Target Organs - Repeated Table information was modified.

Target Organs - Single Table information was modified.

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

Section 5: Fire - Extinguishing media 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 10.1: Reactivity information information was modified.

Section 13: 13.1. Waste disposal note information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 4: First aid for inhalation information information was modified.  
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.  
Remark (phrase) information was added.  
Section 12: Component ecotoxicity information information was added.  
Section 12: Persistence and Degradability information information was added.  
Section 12:Biocumulative 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:Biocumulative potential table Material column header information was added.  
Section 12:Biocumulative potential table CAS No column header information was added.  
Section 12:Biocumulative potential table CAS No column header information was added.  
Section 12:Biocumulative potential table Test Result column header information was added.  
Section 12:Biocumulative potential table Protocol column header information was added.  
Section 12:Biocumulative potential table Test Type column header information was added.  
Section 2: Notes on labelling heading information was added.  
Section 8: Personal Protection - Eye information information was added.  
Section 8: Personal Protection - Skin/hand information information was added.  
Section 12: Persistence and degradability table Study Type column header information was added.  
Section 12:Biocumulative 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.  
Section 10: Hazardous decomposition products during combustion text information was added.  
Label: Graphic information was added.  
Section 02: Graphic information information was added.  
Section 9: Flammability (solid, gas) information information was added.  
Section 8: Eye/face protection text information was deleted.  
Section 2: Symbols heading information was deleted.  
Section 15: Symbol information information was deleted.  
Section 8: Skin/hand protection information information was deleted.  
Prints No Data if Component ecotoxicity information is not present information was deleted.  
Prints No Data if Biocumulative potential information is not present information was deleted.  
Section 8: mg/m<sup>3</sup> key information was deleted.  
Section 8: ppm key information was deleted.  
Section 2.1: Classification information 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.

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