



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cavilon™ No Sting Barrier Film (Foam Applicator) 3343N, 3345N

#### Product Identification Numbers

GH-6206-1397-2

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Skin protectant barrier film. Professional

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

GHS	HSNO
Flammable Liquid: Category 2	3.1B Flammable Liquid
Acute Aquatic Toxicity: Category 1	9.1A Aquatic toxicity (acute)
Chronic Aquatic Toxicity: Category 1	9.1A Aquatic toxicity (chronic)

#### 2.2. Label elements

**SIGNAL WORD**

DANGER!

**Symbols:**

Flame | Environment |

**Pictograms****HAZARD STATEMENTS:**

H225 Highly flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS****Prevention:**

P210A Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240B Ground and bond container and receiving equipment.

P242A Use non-sparking tools.

P233 Keep container tightly closed.

P243A Take action to prevent static discharges.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280B Wear protective gloves and eye/face protection.

P273 Avoid release to the environment.

**Response:**

P370 + P378G In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

P303 + P361 + P353A IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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

Ingredient	CAS Nbr	% by Weight
Hexamethyldisiloxane	107-46-0	80 - 90
Acrylate Terpolymer	Trade Secret	5 - 15
Polyphenylmethylsiloxane Copolymer	70131-69-0	< 2

**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. Suitable extinguishing media**

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

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

None inherent in this product.

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

<u><b>Substance</b></u>	<u><b>Condition</b></u>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

#### **5.3. Special protective actions for fire-fighters**

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

#### **5.4. Hazchem code:** Not applicable.

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

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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 using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from oxidising agents.

### 7.3. Certified handler

Not required

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use explosion-proof ventilation equipment.

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

##### Eye/face protection

Eye protection not required.

##### 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:	Fluid on foam applicator.
Appearance/Odour	Foam applicator with clear, odourless liquid.
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Melting point/Freezing point	<i>No data available.</i>

<b>Boiling point/Initial boiling point/Boiling range</b>	100 °C [ <i>Test Method</i> :Tested per ASTM protocol] [ <i>Details</i> :(For liquid portion)]
<b>Flash point</b>	-6.7 °C [ <i>Test Method</i> :Closed Cup]
<b>Evaporation rate</b>	<=1 [ <i>Test Method</i> :Tested per ASTM protocol] [ <i>Ref Std</i> :ETHER=1]
<b>Flammability (solid, gas)</b>	Not classified
<b>Flammable Limits(LEL)</b>	0.7 %
<b>Flammable Limits(UEL)</b>	18.3 %
<b>Vapour pressure</b>	<= 4,399.6 Pa
<b>Vapour density</b>	<i>Not applicable.</i>
<b>Density</b>	0.78 g/ml [ <i>Details</i> :(For liquid portion)]
<b>Relative density</b>	0.78 [ <i>Test Method</i> :Tested per ASTM protocol] [ <i>Ref Std</i> :WATER=1] [ <i>Details</i> :(For liquid portion)]
<b>Water solubility</b>	<=0.1 % [ <i>Test Method</i> :Tested per ASTM protocol]
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>Not applicable.</i>
<b>Autoignition temperature</b>	340 °C
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	<= 10 mPa-s [ <i>Test Method</i> :Tested per ASTM protocol] [ <i>Details</i> :(For liquid portion)]
<b>Volatile organic compounds (VOC)</b>	720 g/l
<b>Percent volatile</b>	85 - 90 %
<b>VOC less H2O &amp; exempt solvents</b>	<i>No data available.</i>

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

Sparks and/or flames.

### 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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be

present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

## 11.1 Information on Toxicological effects

### Signs and Symptoms of Exposure

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

#### Inhalation

No known health effects.

#### 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 known health effects.

### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hexamethyldisiloxane	Dermal	Rabbit	LD50 > 2,000 mg/kg
Hexamethyldisiloxane	Inhalation-Vapor (4 hours)	Rat	LC50 106 mg/l
Hexamethyldisiloxane	Ingestion	Rat	LD50 > 5,000 mg/kg
Polyphenylmethylsiloxane Copolymer	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.5 mg/l

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Hexamethyldisiloxane	Rabbit	No significant irritation

#### Serious Eye Damage/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
Hexamethyldisiloxane	Rabbit	Mild irritant

#### Skin Sensitisation

Name	Species	Value
Hexamethyldisiloxane	Guinea pig	Not classified

#### Respiratory Sensitisation

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

**3M™ Cavilon™ No Sting Barrier Film (Foam Applicator) 3343N, 3345N****Germ Cell Mutagenicity**

Name	Route	Value
Hexamethyldisiloxane	In Vitro	Not mutagenic
Hexamethyldisiloxane	In vivo	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Hexamethyldisiloxane	Inhalation	Rat	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
Hexamethyldisiloxane	Inhalation	Not classified for male reproduction	Rat	NOAEL 33 mg/l	13 weeks

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

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hexamethyldisiloxane	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 33 mg/l	6 hours
Hexamethyldisiloxane	Ingestion	central nervous system depression	Not classified	Guinea pig	LOAEL 22,900 mg/kg	not applicable

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hexamethyldisiloxane	Dermal	liver   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Hexamethyldisiloxane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4 mg/l	13 weeks
Hexamethyldisiloxane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 33 mg/l	13 weeks
Hexamethyldisiloxane	Inhalation	liver	Not classified	Multiple animal species	NOAEL 29 mg/l	15 days
Hexamethyldisiloxane	Inhalation	heart   endocrine system   immune system   nervous system   respiratory system	Not classified	Rat	NOAEL 33 mg/l	13 weeks

**Aspiration Hazard**

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

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

**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

#### Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 1 (HSNO 9.1A Aquatic toxicity)

Chronic Aquatic Toxicity: Category 1 (HSNO 9.1A Aquatic toxicity)

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Hexamethyldisiloxane	107-46-0	Green Algae	Experimental	70 hours	EC50	>0.55 mg/l
Hexamethyldisiloxane	107-46-0	Rainbow trout	Experimental	96 hours	LC50	0.46 mg/l
Hexamethyldisiloxane	107-46-0	Green Algae	Experimental	70 hours	Effect Concentration 10%	0.09 mg/l
Hexamethyldisiloxane	107-46-0	Water flea	Experimental	21 days	NOEC	0.08 mg/l
Acrylate Terpolymer	Trade Secret		Data not available or insufficient for classification			
Polyphenylmethyldisiloxane Copolymer	70131-69-0	Green algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Polyphenylmethyldisiloxane Copolymer	70131-69-0	Green Algae	Estimated	72 hours	No tox obs at lmt of water sol	>100 mg/l
Polyphenylmethyldisiloxane Copolymer	70131-69-0	Rainbow trout	Estimated	60 days	No tox obs at lmt of water sol	>100 mg/l
Polyphenylmethyldisiloxane Copolymer	70131-69-0	Water flea	Estimated	21 days	No tox obs at lmt of water sol	>100 mg/l

### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Hexamethyldisiloxane	107-46-0	Experimental Photolysis		Photolytic half-life (in air)	22.5 days (t 1/2)	Other methods
Hexamethyldisiloxane	107-46-0	Experimental Hydrolysis		Hydrolytic half-life	120 hours (t 1/2)	Other methods
Acrylate Terpolymer	Trade Secret	Data not availbl-insufficient			N/A	
Polyphenylmethyldisiloxane Copolymer	70131-69-0	Estimated Biodegradation	28 days	BOD	2.2 % BOD/ThBOD	OECD 301F - Manometric respirometry

### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Hexamethyldisiloxane	107-46-0	Experimental	56 days	Bioaccumulation	2410	OECD 305C-Bioaccumulation



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loxane		BCF-Carp		n factor		degree fish
Acrylate Terpolymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyphenylmet hysiloxane Copolymer	70131-69-0	Estimated BCF - Bluegill	45 days	Bioaccumulatio n factor	2992	OECD 305E - Bioaccumulation flow- through fish test

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

**SECTION 14: Transport Information****New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport**

**UN No.:** UN3175

**Proper Shipping Name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. , ( Hexamethyldisiloxane )

**Class/Division:** 4.1

**Sub Risk:** Not applicable.

**Packing Group:** II

**Special Instructions:** Not restricted, as per Special Provision 216.

**Hazchem Code:** Not applicable.

**IERG:** 20

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** UN3175

**Proper Shipping Name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. , ( Hexamethyldisiloxane )

**Class/Division:** 4.1

**Sub Risk:** Not applicable.

**Packing Group:** II

**Special Instructions:** Not restricted, as per Special Provision A46.

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**UN No.:** UN3175

**Proper Shipping Name:** SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. , ( Hexamethyldisiloxane )

**Class/Division:** 4.1

**Sub Risk:** Not applicable.

**Packing Group:** II

**Marine Pollutant:** Hexamethyldisiloxane

**Special Instructions:** Not restricted, as per Special Provision 216.

## SECTION 15: Regulatory information

HSNO Approval number      HSR002552  
Group standard name      Cosmetic Products Group Standard 2017  
HSNO Hazard classification      Refer to Section 2: Hazard identification

### **NZ Inventory of Chemicals (NZIoC) Status**

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

### **Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017**

Certified handler	Not required
Location Compliance Certificate	100 L (closed containers greater than 5 L)    250 L (closed containers up to and including 5 L)    50 L (open containers)
Hazardous atmosphere zone	100 L (closed containers)    25 L (decanting)    5 L (open occasionally)    1 L (open containers in continuous use)
Fire extinguishers	Two required for 250 L
Emergency response plan	100 L (for a HSNO 9.1A substance); or 1,000 L (for all other HSNO 3.1B substances)
Secondary containment	100 L (for a HSNO 9.1A substance); or 1,000 L (for all other HSNO 3.1B substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance); or 250 L (for all other HSNO 3.1B substances)

## SECTION 16: Other information

### **Revision information:**

Update to Section 15, Regulatory information.

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### **Key to abbreviations and acronyms**

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

**HSNO** means Hazardous Substances and New Organisms Act 1996

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