

## Safety Data Sheet

© 2022, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 07-3998-7
 Version number:
 3.00

 Issue Date:
 01/06/2022
 Supersedes date:
 16/07/2018

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

## **IDENTIFICATION:**

#### 1.1. Product identifier

3M™ Rigid Pillar Foam PN 08458

#### **Product Identification Numbers**

60-9800-3105-2

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

#### Recommended use

Automotive.

#### 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)

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

07-3997-9, 07-3996-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

## TRANSPORT INFORMATION

NOT HAZARDOUS FOR TRANSPORT

#### **Revision information:**

Complete document review.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz



## Safety Data Sheet

© 2022, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 07-3997-9
 Version number:
 3.00

 Issue Date:
 16/08/2022
 Supersedes date:
 15/07/2018

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™ Rigid Pillar Foam PN 08458 Part B

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

#### Recommended use

Automotive. Two component rigid foam

For Industrial or Professional use only

## 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 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

Specific Target Organ Toxicity (single exposure): Category 2 Chronic Aquatic Toxicity: Category 3

# 2.2. Label elements SIGNAL WORD

Warning

#### **Symbols:**

Health Hazard |

## **Pictograms**



### **HAZARD STATEMENTS:**

H371 May cause damage to organs: kidney/urinary tract | liver | nervous system.

H412 Harmful to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**Prevention** 

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280E Wear protective gloves.

Response

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

Storage

P405 Store locked up.

**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
Poly[Oxy(Methyl-1,2-Ethanediyl)], .AlphaHydroOmegaHydroxy-	25322-69-4	30 - 60
Polypropylene Glycol Glycerol Triether	25791-96-2	15 - 40
Dimethyl Siloxane, Reaction Product With Silica	67762-90-7	1 - 10
Water	7732-18-5	1 - 10
Diethylene Glycol	111-46-6	1 - 5
Potassium Acetate	127-08-2	1 - 5
Polyalkylene Glycol	Trade Secret	0.5 - 1.5
Siloxane Polyalkyleneoxide Copolymer	Trade Secret	0.5 - 1.5
Octamethylcyclotetrasiloxane	556-67-2	< 0.1

## **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

Wash with soap and water. If you feel unwell, get medical attention.

## 3M™ Rigid Pillar Foam PN 08458 Part B

## Eye contact

No need for first aid is anticipated.

#### If swallowed

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

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

No critical symptoms or effects. 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 ordinary combustible material such as water or foam to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. 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. 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. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. 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. 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

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke

## 3M™ Rigid Pillar Foam PN 08458 Part B

when using this product. Wash thoroughly after handling. Avoid release to the environment.

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

No special storage requirements.

#### 7.3. Certified handler

Not required

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Diethylene Glycol	111-46-6	AIHA	TWA:10 mg/m <sup>3</sup>	
Diethylene Glycol	111-46-6	New Zealand WES	TWA(8 hours):101 mg/m3 (23 ppm)	
Poly[Oxy(Methyl-1,2- Ethanediyl)], .Alpha HydroOmegaHydroxy-	25322-69-4	AIHA	TWA(as aerosol):10 mg/m3	
Octamethylcyclotetrasiloxane	556-67-2	AIHA	TWA:10 ppm	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

ppm: parts per million

mg/m3: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

Eye protection not required.

### Skin/hand protection

No protective gloves required.

## Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

9.1. Information on basic physical and chemical properties

Information on basic physical and chemical propertic	es es
Physical state	Liquid.
Colour	Off-White
Odour	Odourless
Odour threshold	No data available.
pH	Not applicable.
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	>=198.9 °C
Flash point	>=93.3 °C [Test Method:Closed Cup]
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Vapour pressure	<=186,158.4 Pa [@ 55 °C ] [Details:MITS data]
Vapor Density and/or Relative Vapor Density	Not applicable.
Density	1 g/ml - 1.08 g/ml
Relative density	1.04 [Ref Std:WATER=1]
Water solubility	Not applicable.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	4,000 - 8,000 mPa-s [Test Method:Brookfield]
Volatile organic compounds (VOC)	2 g/l [Test Method:calculated per CARB title 2]
Volatile organic compounds (VOC)	0.1 % weight [Test Method:calculated per CARB title 2]
Percent volatile	0 % weight
VOC less H2O & exempt solvents	30 - 32 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	No data available.
L	ı

# **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

<u>Substance</u> <u>Condition</u>

## 3M™ Rigid Pillar Foam PN 08458 Part B

Carbon monoxide.

Carbon dioxide.

Not specified.

Not specified.

Not specified.

Not specified.

Not specified.

## **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

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

#### Skin contact

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

#### Eve contact

Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

### Ingestion

May be harmful if swallowed.

May cause additional health effects (see below).

#### **Additional Health Effects:**

## Single exposure may cause target organ effects:

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

## **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**

reute Toxicity			•
Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Poly[Oxy(Methyl-1,2-Ethanediyl)], .AlphaHydroOmega Hydroxy-	Dermal	Rabbit	LD50 > 10,000 mg/kg
Poly[Oxy(Methyl-1,2-Ethanediyl)], .AlphaHydroOmega	Ingestion	Rat	LD50 > 2,000 mg/kg

## 3MTM Rigid Pillar Foam PN 08458 Part B

Hydroxy-			
Polypropylene Glycol Glycerol Triether	Dermal	Rat	LD50 > 2,000 mg/kg
Polypropylene Glycol Glycerol Triether	Inhalation-	Rat	LC50 > 50  mg/l
	Dust/Mist		
	(4 hours)		
Polypropylene Glycol Glycerol Triether	Ingestion	Rat	LD50 4,600 mg/kg
Dimethyl Siloxane, Reaction Product With Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl Siloxane, Reaction Product With Silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Dimethyl Siloxane, Reaction Product With Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Diethylene Glycol	Ingestion	Human	LD50 estimated to be 300 - 2,000 mg/kg
Diethylene Glycol	Dermal	Rabbit	LD50 13,300 mg/kg
Diethylene Glycol	Inhalation-	Rat	LC50 > 4.6  mg/l
	Dust/Mist		
	(4 hours)		
Octamethylcyclotetrasiloxane	Dermal	Rat	LD50 > 2,400  mg/kg
Octamethylcyclotetrasiloxane	Inhalation-	Rat	LC50 36 mg/l
	Dust/Mist		
	(4 hours)		
Octamethylcyclotetrasiloxane	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Poly[Oxy(Methyl-1,2-Ethanediyl)], .AlphaHydroOmegaHydroxy-	Rabbit	No significant irritation
Polypropylene Glycol Glycerol Triether	Rabbit	No significant irritation
Dimethyl Siloxane, Reaction Product With Silica	Rabbit	No significant irritation
Diethylene Glycol	Rabbit	No significant irritation
Octamethylcyclotetrasiloxane	Rabbit	Minimal irritation

**Serious Eve Damage/Irritation** 

serious 2 je 2 umuge, minuton		
Name		Value
Poly[Oxy(Methyl-1,2-Ethanediyl)], .AlphaHydroOmegaHydroxy-	Rabbit	No significant irritation
Polypropylene Glycol Glycerol Triether	Rabbit	Mild irritant
Dimethyl Siloxane, Reaction Product With Silica	Rabbit	No significant irritation
Diethylene Glycol	Rabbit	Mild irritant
Octamethylcyclotetrasiloxane	Rabbit	No significant irritation

### **Sensitisation:**

## **Skin Sensitisation**

Name	Species	Value
Dimethyl Siloxane, Reaction Product With Silica	Human and animal	Not classified
Octamethylcyclotetrasiloxane	Human and animal	Not classified

## **Respiratory Sensitisation**

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

**Germ Cell Mutagenicity** 

Name	Route	Value
Dimethyl Siloxane, Reaction Product With Silica	In Vitro	Not mutagenic
Octamethylcyclotetrasiloxane	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Dimethyl Siloxane, Reaction Product With Silica	Not specified.	Mouse	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
Dimethyl Siloxane, Reaction Product With Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl Siloxane, Reaction Product With Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl Siloxane, Reaction Product With Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Octamethylcyclotetrasiloxane	Inhalation	Not classified for male reproduction	Rat	NOAEL 8.5 mg/l	2 generation
Octamethylcyclotetrasiloxane	Ingestion	Toxic to female reproduction	Rabbit	NOAEL 50 mg/kg/day	during organogenesis
Octamethylcyclotetrasiloxane	Inhalation	Toxic to female reproduction	Rat	NOAEL 3.6 mg/l	2 generation

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ	TOXICITY -	singic exposure				
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Diethylene Glycol	Ingestion	liver   nervous system   kidney and/or bladder	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Diethylene Glycol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse

**Specific Target Organ Toxicity - repeated exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dimethyl Siloxane, Reaction Product With Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure
Octamethylcyclotetrasilox ane	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 960 mg/kg/day	3 weeks
Octamethylcyclotetrasilox ane	Inhalation	liver	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
Octamethylcyclotetrasilox ane	Inhalation	endocrine system   immune system   kidney and/or bladder	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
Octamethylcyclotetrasilox ane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
Octamethylcyclotetrasilox ane	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg/day	2 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.

Chronic Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Poly[Oxy(Meth	25322-69-4	Activated	Experimental	3 hours	EC50	>1,000 mg/l
yl-1,2-		sludge				
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Poly[Oxy(Meth	25322-69-4	Green algae	Experimental	72 hours	EC50	>100 mg/l
yl-1,2-			1			
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Poly[Oxy(Meth	25322-69-4	Water flea	Experimental	48 hours	EC50	105.8 mg/l
yl-1,2-			1			
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Poly[Oxy(Meth	25322-69-4	Zebra Fish	Experimental	96 hours	LC50	>100 mg/l
yl-1,2-			1			
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Poly[Oxy(Meth	25322-69-4	Green algae	Experimental	72 hours	NOEC	>100 mg/l
yl-1,2-			1			
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Poly[Oxy(Meth	25322-69-4	Water flea	Experimental	21 days	NOEC	>=10 mg/l
yl-1,2-			1			
Ethanediyl)], .						
Alpha						
HydroOmega.						
-Hydroxy-						
Polypropylene	25791-96-2	Golden Orfe	Experimental	96 hours	LC50	>1,000 mg/l
Glycol			1			
Glycerol						
Triether						

Polypropylene	25791-96-2	Green algae	Experimental	72 hours	EC50	>100 mg/l
Glycol	23771702	Green argue	Experimental	72 110415	Less	l 100 mg/1
Glycerol						
Triether						
Polypropylene	25791-96-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
Glycol			F			
Glycerol						
Triether						
Polypropylene	25791-96-2	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Glycol			F			
Glycerol						
Triether						
Dimethyl	67762-90-7		Data not			N/A
Siloxane,			available or			
Reaction			insufficient for			
Product With			classification			
Silica						
Diethylene	111-46-6	Activated	Experimental	30 minutes	EC20	>1,995 mg/l
Glycol		sludge	1			
Diethylene	111-46-6	Bacteria	Experimental	16 hours	LOEC	8,000 mg/l
Glycol			F			
Diethylene	111-46-6	Fathead	Experimental	96 hours	LC50	75,200 mg/l
Glycol		minnow				
Diethylene	111-46-6	Water flea	Experimental	48 hours	LC50	48,900 mg/l
Glycol		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Z.i.p • i i i i i i i i i i i i i i i i i i	10 110 415		
Diethylene	111-46-6	Green algae	Estimated	72 hours	NOEC	100 mg/l
Glycol				7 2 110 6115	1,020	
Diethylene	111-46-6	Water flea	Experimental	7 days	NOEC	8,590 mg/l
Glycol		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Z.i.p • i i i i i i i i i i i i i i i i i i	, amys	1,020	
Potassium	127-08-2	Bacteria	Experimental	16 hours	EC50	7,200 mg/l
Acetate	12, 00 2	2 www.	Z.i.p • i i i i i i i i i i i i i i i i i i	10 110 415		,,=00 mg/1
Potassium	127-08-2	Diatom	Experimental	72 hours	EC50	>500 mg/l
Acetate	12, 00 2	2 1440111	Z.i.p • i i i i i i i i i i i i i i i i i i	7 2 110 6115		
Potassium	127-08-2	Fathead	Experimental	96 hours	LC50	298 mg/l
Acetate	12, 00 2	minnow	Experimental	yo nours	Less	2,0 mg/1
Potassium	127-08-2	Water flea	Experimental	48 hours	LC50	313 mg/l
Acetate	127 00 2	Water frea	Experimental	To nours	Leso	
Potassium	127-08-2	Diatom	Experimental	72 hours	NOEC	500 mg/l
Acetate	127 00 2	Diatom	Experimental	72 Hours	TOLE	
Octamethylcycl	556-67-2	Blackworm	Experimental	28 days	NOEC	0.73 mg/kg (Dry
otetrasiloxane	330 07 2	Blackworth	Experimental	20 days	NOLE	Weight)
Octamethylcycl	556-67-2	Midge	Experimental	14 days	LC50	>170 mg/kg (Dry
otetrasiloxane	330 07 2	ivilage	Experimental	14 days	Leso	Weight)
Octamethylcycl	556-67-2	Mysid Shrimp	Experimental	96 hours	LC50	>0.0091 mg/l
otetrasiloxane	330 07 2	iviysia Siiriiip	Experimental	) ilouis	Leso	2 0.0091 mg/1
Octamethylcycl	556-67-2	Rainbow trout	Experimental	96 hours	LC50	>0.022 mg/l
otetrasiloxane	330-07-2	Kambow trout	Experimental	90 Hours	LC30	- 0.022 mg/i
Octamethylcycl	556-67-2	Water flea	Experimental	48 hours	EC50	>0.015 mg/l
otetrasiloxane	330-07-2	water fied	Experimental	46 110015	ECSO	- 0.013 mg/1
Octamethylcycl	556 67 2	Rainbow trout	Experimental	93 days	NOEC	0.0044 mg/l
otetrasiloxane	330-07-2	Kambow Houl	Experimental	23 uays	NOEC	0.00 <del>44</del> IIIg/1
	556 67 2	Water flag	Evmonise antal	21 days	NOEC	0.015 mg/l
Octamethylcycl	330-07-2	Water flea	Experimental	21 days	NOEC	0.015 mg/l
otetrasiloxane	556 67.2	A ationat - 1	E-manine	2 1	EC50	> 10,000 /1
Octamethylcycl	1330-07-2	Activated	Experimental	3 hours	EC50	>10,000 mg/l

ototrogilovono	l laludgo		1	
lotetrasiloxane	I ISIUUSE		1	

## 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Poly[Oxy(Meth	25322-69-4	Experimental	28 days	BOD	89 % weight	OECD 301F -
yl-1,2-		Biodegradation				Manometric
Ethanediyl)], .						respirometry
Alpha						
HydroOmega.						
-Hydroxy-						
Polypropylene	25791-96-2	Experimental	28 days	CO2 evolution	38 % weight	OECD 301B - Modified
Glycol		Biodegradation				sturm or CO2
Glycerol						
Triether						
Dimethyl	67762-90-7	Data not	N/A	N/A	N/A	N/A
Siloxane,		availbl-				
Reaction		insufficient				
Product With						
Silica						
Diethylene	111-46-6	Experimental	28 days	Dissolv.	91.8 % weight	OECD 301A - DOC
Glycol		Biodegradation		Organic		Die Away Test
				Carbon Deplet		
Potassium	127-08-2	Estimated	28 days	Dissolv.	99 %BOD/ThO	
Acetate		Biodegradation		Organic	D	
				Carbon Deplet		
Octamethylcycl	556-67-2	Experimental	29 days	CO2 evolution	3.7 %CO2	OECD 310 CO2
otetrasiloxane		Biodegradation			evolution/THC	Headspace
					O2 evolution	
Octamethylcycl	556-67-2	Experimental		Photolytic half-	31 days (t 1/2)	
otetrasiloxane		Photolysis		life (in air)		
Octamethylcycl	556-67-2	Experimental		Hydrolytic	69.3-144 hours	OECD 111 Hydrolysis
otetrasiloxane		Hydrolysis		half-life (pH 7)	(t 1/2)	func of pH

## 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Poly[Oxy(Meth	25322-69-4	Experimental		Log Kow	<0.9	
yl-1,2-		Bioconcentrati				
Ethanediyl)], .		on				
Alpha						
HydroOmega.						
-Hydroxy-						
Polypropylene	25791-96-2	Experimental	42 days	Bioaccumulatio	≤7	
Glycol		BCF - Fish		n factor		
Glycerol						
Triether						
Dimethyl	67762-90-7	Data not	N/A	N/A	N/A	N/A
Siloxane,		available or				
Reaction		insufficient for				
Product With		classification				
Silica						
Diethylene	111-46-6	Experimental		Log Kow	-1.98	
Glycol		Bioconcentrati				
		on				

Potassium	127-08-2	Estimated		Log Kow	-3.72	
Acetate		Bioconcentrati				
		on				
Octamethylcycl	556-67-2	Experimental	28 days	Bioaccumulatio	12400	40CFR 797.1520-Fish
otetrasiloxane		BCF - Fish		n factor		Bioaccumm
Octamethylcycl	556-67-2	Experimental		Log Kow	6.49	OECD 123 log Kow
otetrasiloxane		Bioconcentrati				slow stir
		on				

#### 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.

Dispose of completely cured (or polymerized) 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. 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.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.

**Hazchem Code:** Not applicable.

**IERG:** Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

**UN No.:** Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Marine Pollutant: Not applicable.

## **SECTION 15: Regulatory information**

HSNO Approval number HSR002670

Group standard name Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

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 Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler Not required
Location Compliance Certificate Not required
Hazardous atmosphere zone Not required
Fire extinguishers Not required

Emergency response plan 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

environment Category 4 substances)

Secondary containment 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

environment Category 4 substances)

Tracking Not required

Warning signage 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4

substances)

## **SECTION 16: Other information**

### **Revision information:**

Complete document review.

Document group:	07-3997-9	Version number:	3.00
Issue Date:	16/08/2022	Supersedes date:	15/07/2018

## Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz



## Safety Data Sheet

© 2022, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 07-3996-1
 Version number:
 3.00

 Issue Date:
 21/08/2022
 Supersedes date:
 15/07/2018

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<sup>TM</sup> Rigid Pillar Foam PN 08458 Part A

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

#### Recommended use

Automotive. Two component rigid foam

For Industrial or Professional use only

## 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 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

Skin Corrosion/Irritation: Category 2 Serious Eye Damage/Irritation: Category 2 Respiratory Sensitiser: Category 1

Skin Sensitiser: Category 1

Specific Target Organ Toxicity (repeated exposure): Category 1 Specific Target Organ Toxicity (single exposure): Category 3

## 2.2. Label elements

SIGNAL WORD

Danger

#### **Symbols:**

Exclamation mark | Health Hazard |

#### **Pictograms**





### **HAZARD STATEMENTS:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure: respiratory system.

#### PRECAUTIONARY STATEMENTS

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280E Wear protective gloves.
P284 Wear respiratory protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 IF eye irritation persists: Get medical advice/attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or

doctor/physician.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

## 2.3. Other hazards

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

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

Ingredient	CAS Nbr	% by Weight
Polymethylene Polyphenylene Isocyanate	9016-87-9	25 - 60
P,P'-Methylenebis(phenyl isocyanate)	101-68-8	25 - 45
1,1'-Methylenebis(isocyanatobenzene)	26447-40-5	5 - 30
Dimethyl Siloxane, Reaction Product with Silica	67762-90-7	1 - 5

## **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.

#### Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

#### If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

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

Not applicable

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

## 5.1. Suitable extinguishing media

DO NOT USE WATER In case of fire: Use a carbon dioxide extinguisher to extinguish.

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

None inherent in this product.

## 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

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

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

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

Evacuate area. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Do not breathe 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. Avoid release to the environment. Wash contaminated clothing before reuse.

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

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store in a dry place. Store away from amines.

#### 7.3. Certified handler

Not required

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component

for the component.				
Ingredient	CAS Nbr	Agency	Limit type	<b>Additional comments</b>
Free isocyanates	101-68-8	New Zealand WES	TWA(as NCO)(8 hours):0.02 mg/m3;STEL(as NCO)(15 minutes):0.07 mg/m3	Capable of csng resp/skin sens, Dermal sensitiser, Respiratory sensitiser
P,P'-Methylenebis(phenyl isocyanate)	101-68-8	ACGIH	TWA:0.005 ppm	
Free isocyanates	26447-40-5	New Zealand WES	TWA(as NCO)(8 hours):0.02 mg/m3;STEL(as NCO)(15 minutes):0.07 mg/m3	Capable of csng resp/skin sens, Dermal sensitiser, Respiratory sensitiser
Free isocyanates	9016-87-9	New Zealand WES	TWA(as NCO)(8 hours):0.02 mg/m3;STEL(as NCO)(15 minutes):0.07 mg/m3	Capable of csng resp/skin sens, Dermal sensitiser, Respiratory sensitiser

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines New Zealand WES: New Zealand Workplace Exposure Standards.

## 3M<sup>TM</sup> Rigid Pillar Foam PN 08458 Part A

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

#### 8.2. Exposure controls

### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation on open containers. 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:

Indirect vented goggles.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl rubber.

Fluoroelastomer

Nitrile rubber.

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber Apron – Nitrile

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

9.1.	Information on basic physical and chemical properties	
	Physical state	Liquid

\_\_\_\_\_\_

Specific Physical Form:	Viscous.
Colour	Brown
Odour	Odourless
Odour threshold	No data available.
pH	Not applicable.
Melting point/Freezing point	Not applicable.
Boiling point/Initial boiling point/Boiling range	>=204.4 °C
Flash point	198.9 °C [Test Method:Closed Cup]
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Vapour pressure	<=186,158.4 Pa [@ 55 °C ] [Details:MITS data]
Vapor Density and/or Relative Vapor Density	8.5 [ <i>Ref Std</i> :AIR=1]
Density	1.24 g/ml
Relative density	1.24 [Ref Std:WATER=1]
Water solubility	Not applicable.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	5,000 - 14,000 mPa-s [@ 26.7 °C ]
Volatile organic compounds (VOC)	0.1 % weight [Test Method:calculated per CARB title 2]
Volatile organic compounds (VOC)	1 g/l [Test Method:calculated SCAQMD rule 443.1]
Percent volatile	0.1 % weight
VOC less H2O & exempt solvents	1 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	No data available.

# **SECTION 10: Stability and reactivity**

## **10.1 Reactivity**

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

## 10.2 Chemical stability

Stable.

## 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

## 10.4 Conditions to avoid

None known.

## 10.5 Incompatible materials

Amines.

Alcohols.

Water

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

## 10.6 Hazardous decomposition products

SubstanceConditionIsocyanatesNot specified.

\_\_\_\_\_

## 3M<sup>TM</sup> Rigid Pillar Foam PN 08458 Part A

Carbon monoxide.

Carbon dioxide.

Hydrogen cyanide.

Oxides of nitrogen.

Toxic vapour, gas, particulate.

Not specified.

Not specified.

Not specified.

Not specified.

Not specified.

Not specified.

## **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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

#### Skin contact

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

#### **Eve contact**

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

### **Ingestion**

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

#### **Additional Health Effects:**

#### Prolonged or repeated exposure may cause target organ effects:

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

## Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

#### 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
Polymethylene Polyphenylene Isocyanate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Polymethylene Polyphenylene Isocyanate	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		

## 3MTM Rigid Pillar Foam PN 08458 Part A

	(4 hours)		
Polymethylene Polyphenylene Isocyanate	Ingestion	Rat	LD50 31,600 mg/kg
P,P'-Methylenebis(phenyl isocyanate)	Dermal	Rabbit	LD50 > 5,000 mg/kg
P,P'-Methylenebis(phenyl isocyanate)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
P,P'-Methylenebis(phenyl isocyanate)	Ingestion	Rat	LD50 31,600 mg/kg
1,1'-Methylenebis(isocyanatobenzene)	Dermal	Rabbit	LD50 > 5,000 mg/kg
1,1'-Methylenebis(isocyanatobenzene)	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
1,1'-Methylenebis(isocyanatobenzene)	Ingestion	Rat	LD50 31,600 mg/kg
Dimethyl Siloxane, Reaction Product with Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl Siloxane, Reaction Product with Silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Dimethyl Siloxane, Reaction Product with Silica	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official classificat ion	Irritant
P,P'-Methylenebis(phenyl isocyanate)	official classificat ion	Irritant
1,1'-Methylenebis(isocyanatobenzene)	official classificat ion	Irritant
Dimethyl Siloxane, Reaction Product with Silica	Rabbit	No significant irritation

**Serious Eve Damage/Irritation** 

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official classificat ion	Severe irritant
P,P'-Methylenebis(phenyl isocyanate)	official classificat ion	Severe irritant
1,1'-Methylenebis(isocyanatobenzene)	official classificat ion	Severe irritant
Dimethyl Siloxane, Reaction Product with Silica	Rabbit	No significant irritation

## **Sensitisation:**

## **Skin Sensitisation**

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	official classificat ion	Sensitising
P,P'-Methylenebis(phenyl isocyanate)	official classificat ion	Sensitising
1,1'-Methylenebis(isocyanatobenzene)	official classificat ion	Sensitising
Dimethyl Siloxane, Reaction Product with Silica	Human and animal	Not classified

**Respiratory Sensitisation** 

Name	Species	Value
Polymethylene Polyphenylene Isocyanate	Human	Sensitising
P,P'-Methylenebis(phenyl isocyanate)	Human	Sensitising
1,1'-Methylenebis(isocyanatobenzene)	Human	Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Polymethylene Polyphenylene Isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification
P,P'-Methylenebis(phenyl isocyanate)	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,1'-Methylenebis(isocyanatobenzene)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Dimethyl Siloxane, Reaction Product with Silica	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Polymethylene Polyphenylene Isocyanate	Inhalation	Rat	Some positive data exist, but the data are not
			sufficient for classification
P,P'-Methylenebis(phenyl isocyanate)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
1,1'-Methylenebis(isocyanatobenzene)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Dimethyl Siloxane, Reaction Product with Silica	Not specified.	Mouse	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
Polymethylene Polyphenylene Isocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis
P,P'-Methylenebis(phenyl isocyanate)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis
1,1'-Methylenebis(isocyanatobenzene)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis
Dimethyl Siloxane, Reaction Product with Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Dimethyl Siloxane, Reaction Product with Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Dimethyl Siloxane, Reaction Product with Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene	Inhalation	respiratory irritation	May cause respiratory irritation	official	NOAEL Not	
Polyphenylene Isocyanate				classifica	available	
				tion		
P,P'-Methylenebis(phenyl	Inhalation	respiratory irritation	May cause respiratory irritation	official	NOAEL Not	
isocyanate)				classifica	available	
				tion		
1,1'-	Inhalation	respiratory irritation	May cause respiratory irritation	official	NOAEL Not	
Methylenebis(isocyanatobe				classifica	available	
nzene)				tion		

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene Polyphenylene Isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
P,P'-Methylenebis(phenyl isocyanate)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
1,1'- Methylenebis(isocyanatob enzene)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks
Dimethyl Siloxane, Reaction Product with Silica	Inhalation	respiratory system   silicosis	Not classified	Human	NOAEL Not available	occupational exposure

## **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

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Polymethylene	9016-87-9	Green algae	Analogous	72 hours	No tox obs at	>100 mg/l
Polyphenylene			Compound		lmt of water sol	
Isocyanate						
Polymethylene	9016-87-9	Water flea	Analogous	24 hours	No tox obs at	>100 mg/l
Polyphenylene			Compound		lmt of water sol	
Isocyanate						
Polymethylene	9016-87-9	Green algae	Analogous	72 hours	No tox obs at	>100 mg/l
Polyphenylene			Compound		lmt of water sol	
Isocyanate						
Polymethylene	9016-87-9	Activated	Analogous	3 hours	EC50	>100 mg/l
Polyphenylene		sludge	Compound			
Isocyanate						
P,P'-	101-68-8	Activated	Analogous	3 hours	EC50	>100 mg/l
Methylenebis(p		sludge	Compound			
henyl						
isocyanate)						
P,P'-	101-68-8	Water flea	Analogous	24 hours	EC50	>1,000 mg/l
Methylenebis(p			Compound			
henyl						
isocyanate)						
P,P'-	101-68-8	Zebra Fish	Analogous	96 hours	LC50	>1,000 mg/l
Methylenebis(p			Compound			
henyl						

isocyanate)						
P,P'- Methylenebis(p henyl	101-68-8	Water flea	Analogous Compound	21 days	NOEC	>=10 mg/l
isocyanate) 1,1'- Methylenebis(i socyanatobenze ne)	26447-40-5	Green algae	Estimated	72 hours	EC50	>1,640 mg/l
1,1'- Methylenebis(i socyanatobenze ne)	26447-40-5	Water flea	Estimated	24 hours	EC50	>1,000 mg/l
1,1'- Methylenebis(i socyanatobenze ne)	26447-40-5	Zebra Fish	Estimated	96 hours	LC50	>1,000 mg/l
1,1'- Methylenebis(i socyanatobenze ne)	26447-40-5	Green algae	Estimated	72 hours	NOEL	1,640 mg/l
1,1'- Methylenebis(i socyanatobenze ne)	26447-40-5	Water flea	Estimated	21 days	NOEC	>=10 mg/l
Dimethyl Siloxane, Reaction Product with Silica	67762-90-7		Data not available or insufficient for classification			N/A

# 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polymethylene	9016-87-9	Analogous	28 days	BOD	0 %BOD/ThO	OECD 302C - Modified
Polyphenylene		Compound			D	MITI (II)
Isocyanate		Aquatic				
		Inherent				
		Biodegrad.				
Polymethylene	9016-87-9	Analogous		Hydrolytic	20 hours (t 1/2)	
Polyphenylene		Compound		half-life		
Isocyanate		Hydrolysis				
P,P'-	101-68-8	Analogous		Hydrolytic	<2 hours (t 1/2)	
Methylenebis(p		Compound		half-life		
henyl		Hydrolysis				
isocyanate)						
1,1'-	26447-40-5	Data not	N/A	N/A	N/A	N/A
Methylenebis(i		availbl-				
socyanatobenze		insufficient				
ne)						
Dimethyl	67762-90-7	Data not	N/A	N/A	N/A	N/A
Siloxane,		availbl-				
Reaction		insufficient				
Product with						
Silica						

#### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polymethylene	9016-87-9	Analogous	28 days	Bioaccumulatio	200	OECD305-
Polyphenylene		Compound		n factor		Bioconcentration
Isocyanate		BCF - Fish				
Polymethylene	9016-87-9	Analogous		Log Kow	4.51	
Polyphenylene		Compound				
Isocyanate		Bioconcentrati				
		on				
P,P'-	101-68-8	Data not	N/A	N/A	N/A	N/A
Methylenebis(p		available or				
henyl		insufficient for				
isocyanate)		classification				
1,1'-	26447-40-5	Estimated BCF	28 days	Bioaccumulatio	200	
Methylenebis(i		- Fish		n factor		
socyanatobenze						
ne)						
Dimethyl	67762-90-7	Data not	N/A	N/A	N/A	N/A
Siloxane,		available or				
Reaction		insufficient for				
Product with		classification				
Silica						

## 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.

Dispose of completely cured (or polymerized) 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. 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.:** Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable.

**IERG:** Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Not applicable.

## **SECTION 15: Regulatory information**

HSNO Approval number HSR002670

Group standard name Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

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 Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler Not required
Location Compliance Certificate Not required
Hazardous atmosphere zone Not required
Fire extinguishers Not required

Emergency response plan 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

category 1, Serious eye damage category 1, Hazardous to the a

environment Category 4 substances)

Secondary containment 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

environment Category 4 substances)

Tracking Not required

Warning signage 100 L or 100 kg (for Hazardous to the aquatic environment Category 1

substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic

environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

## **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

Document group:	07-3996-1	Version number:	3.00
Issue Date:	21/08/2022	Supersedes date:	15/07/2018

#### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date of issue. TO THE EXTENT PERMITTED BY LAW, 3M MAKES NO WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. 3M provides information in electronic form as a service to customers. Due to the remote possibility of electronic transfer may have resulted in errors, omissions or alterations in this information; 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M New Zealand SDS are available at 3M New Zealand Website: http://solutions.3mnz.co.nz