

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Fire Barrier Mortar

#### **Product Identification Numbers**

98-0400-5607-3 98-0400-5608-1

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

#### Recommended use

Fire Protection

For Industrial or Professional use only

## 1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301

Petaling, Jaya, Selangor

**Telephone:** 03-7884 2888

E Mail: 3mmyehsr@mmm.com Website: www.3M.com.my

#### 1.4. Emergency telephone number

+60 03-7884 2888

# **SECTION 2: Hazard identification**

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

Carcinogenicity: Category 1A.

Specific Target Organ Toxicity (repeated exposure): Category 2.

#### 2.2. Label elements

### Signal word

Danger

## **Symbols**

Health Hazard

# **Pictograms**



**Hazard Statements:** 

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure: respiratory

system.

**Precautionary statements** 

General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

**Prevention:** 

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention.

**Storage:** 

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

# 2.3. Other hazards

The health hazards of this material are not completely known. See the SDS.

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

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Mineral Salt	Trade Secret	60 - 100
Silicate mineral	Trade Secret	1 - 10
Calcium Carbonate	471-34-1	< 7
Acid	Trade Secret	<= 5
Silicate Mineral	Trade Secret	<= 5
Quartz Silica	14808-60-7	< 2

# **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.

#### 3M<sup>TM</sup> Fire Barrier Mortar

#### **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:

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

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

Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

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

#### 5.1. Suitable extinguishing media

Material will not burn. Use a fire fighting agent suitable for the surrounding fire.

#### 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.

# **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

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed 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**

#### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required. Solids can generate static electricity charges when transferred and in mixing operations sufficient to be an ignition source. Evaluate the need for precautions, such as grounding and bonding, low energy transfer of material (e.g. low speed, short distance), or inert atmospheres.

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

Store away from acids. Store away from oxidizing agents.

# **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	C.A.S. No.	Agency	Limit type	Additional Comments
Quartz Silica	14808-60-7	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
Quartz Silica	14808-60-7	Malaysia OELs	TWA(respirable fraction)(8	
			hours):0.1 mg/m3	
DUST, INERT OR NUISANCE	471-34-1	Malaysia OELs	TWA (proposed)(respirable	
			particles)(8 hours):3	
			mg/m3;TWA	
			(proposed)(Inhalable	
			particulate)(8 hours):10 mg/m3	
Limestone	471-34-1	Malaysia OELs	TWA (proposed)(8 hours):10	
			mg/m3	
Particles (insoluble or poorly	471-34-1	ACGIH	TWA(inhalable	
soluble) not otherwise specified,			particulates):10 mg/m3	
inhalable particles				
Particles (insoluble or poorly	471-34-1	ACGIH	TWA(respirable particles):3	
soluble) not otherwise specified,			mg/m3	
respirable particles				
Mineral Salt	Trade	ACGIH	TWA(inhalable fraction):10	
	Secret		mg/m3	
Mineral Salt	Trade	ACGIH	TWA(inhalable	
	Secret		particulates):10 mg/m3	
Mineral Salt	Trade	ACGIH	TWA(respirable particles):3	
10.1	Secret	1.1.1.000	mg/m3	
Mineral Salt	Trade	Malaysia OELs	TWA (proposed)(8 hours):10	
	Secret	1.1.1.000	mg/m3	
Mineral Salt	Trade	Malaysia OELs	TWA (proposed)(respirable	
	Secret		particles)(8 hours):3	
			mg/m3;TWA	
			(proposed)(Inhalable	
Silicate mineral	T 1.	ACCILI	particulate)(8 hours):10 mg/m3	
Silicate mineral	Trade	ACGIH	TWA(inhalable	
Cilianta mainamat	Secret	A CCIII	particulates):10 mg/m3	
Silicate mineral	Trade	ACGIH	TWA(respirable particles):3	
Silicate mineral	Secret	Malassia OFI	mg/m3	
Silicate mineral	Trade	Malaysia OELs	TWA (proposed)(respirable	
	Secret		particles)(8 hours):3	
			mg/m3;TWA (proposed)(Inhalable	
			(proposed)(Innalable particulate)(8 hours):10 mg/m3	
Silicate mineral	Trade	Malaysia OELs	TWA(8 hours):10 mg/m3	
Sincate Innieral	Secret	Iviaiaysia OELS	1 w A(o nours). 10 mg/m3	
ACCITY A : C C C		<u> </u>		

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs: Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

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/vapors/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

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: Nitrile Rubber

#### 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 particulates

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

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

9.1. Information on basic physical and chemical properties

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Physical state	Solid			
Specific Physical Form:	Powder			
Color	Gray			
Odor	Slight Cement			
Odor threshold	No Data Available			
pH	10.2 - 11.9			
Melting point/Freezing point	>=1,000 °C			
Boiling point/Initial boiling point/Boiling range  Not Applicable				
Flash Point	No flash point			
Evaporation rate	Not Applicable			
Flammability (solid, gas)	Not Classified			
Flammable Limits(LEL)	Not Applicable			
Flammable Limits(UEL)	Not Applicable			
Vapor Pressure	Not Applicable			
Vapor Density and/or Relative Vapor Density	y Not Applicable			
Density	No Data Available			
Relative Density	2.1 - 2.4 [ <i>Ref Std</i> :WATER=1]			
Water solubility	Negligible [Details: Conditions: Solids may be dispersed in water]			

Donal Fact 1

Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	Not Applicable
Decomposition temperature	No Data Available
Viscosity/Kinematic Viscosity	Not Applicable
Volatile Organic Compounds	0 % weight
Percent volatile	0
VOC Less H2O & Exempt Solvents	0 g/l
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 polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

## 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot 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 labeling, 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.

May cause additional health effects (see below).

#### **Skin Contact:**

Mechanical Skin irritation: Signs/symptoms may include abrasion, redness, pain, and itching.

#### **Eve Contact:**

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

#### **Ingestion:**

May be harmful if swallowed.

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

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

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

Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### **Additional Information:**

The health hazards of this material are not completely known. Conservative safe handling measures should be followed (as described in sections 7 and 8), and appropriate first aid measures (as described in section 4) should be taken if exposure occurs.

#### **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 >2,000 - =5,000
			mg/kg
Silicate mineral	Dermal	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Silicate mineral	Ingestion	Professio	LD50 estimated to be > 5,000 mg/kg
		nal	
		judgeme	
		nt	
Calcium Carbonate	Dermal	Rat	LD50 > 2,000 mg/kg
Calcium Carbonate	Inhalation-	Rat	LC50 3 mg/l
	Dust/Mist		
	(4 hours)		
Calcium Carbonate	Ingestion	Rat	LD50 6,450 mg/kg
Silicate Mineral	Dermal		LD50 estimated to be > 5,000 mg/kg
Silicate Mineral	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Calcium Carbonate	Rabbit	No significant irritation
Silicate Mineral	Professio	No significant irritation
	nal	
	judgemen	
	t	
Quartz Silica	Professio	No significant irritation
	nal	

Page: 7 of 12

3MTM	Fire	Barrier	Morter
3 14	rne	Darrier	VIOLLAL

judgemen	
t	

Serious Eye Damage/Irritation

Name	Species	Value
Calcium Carbonate	Rabbit	No significant irritation
Silicate Mineral	Professio nal judgemen t	No significant irritation

## **Sensitization:**

## **Skin Sensitization**

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

# **Respiratory Sensitization**

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

**Germ Cell Mutagenicity** 

Name	Route	Value
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Quartz Silica	Inhalation	Human	Carcinogenic
		and	
		animal	

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Calcium Carbonate	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Calcium Carbonate	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes

Specific Target Organ Toxicity - repeated exposure

Specific Target Organ Toxicity - Tepeated exposure								
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure		
						Duration		
Calcium Carbonate	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational		
					available	exposure		
Quartz Silica	Inhalation	silicosis	Causes damage to organs through	Human	NOAEL Not	occupational		
			prolonged or repeated exposure		available	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 labeling, 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

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Туре	Exposure	Test Endpoint	Test Result
Mineral Salt	Trade Secret	Bluegill	Analogous	96 hours	LC50	>2,980 mg/l
			Compound			
Mineral Salt	Trade Secret	Diatom	Analogous	96 hours	ErC50	3,200 mg/l
			Compound			
Mineral Salt	Trade Secret	Water flea	Analogous	48 hours	LC50	>1,970 mg/l
			Compound			
Mineral Salt	Trade Secret	Water flea	Analogous	21 days	NOEC	1,600 mg/l
			Compound			
Mineral Salt	Trade Secret	Activated	Analogous	3 hours	NOEC	1,000 mg/l
		sludge	Compound			
Silicate mineral	Trade Secret		Data not			N/A
			available or			
			insufficient for			
			classification			
Calcium	471-34-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Carbonate						
Calcium	471-34-1	Rainbow Trout	Experimental	96 hours	LC50	>100 mg/l
Carbonate						
Calcium	471-34-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Carbonate						
Calcium	471-34-1	Green algae	Experimental	72 hours	EC10	100 mg/l
Carbonate	m 1 a	-		4 4 1	7.000	40.000 //
Acid	Trade Secret	Bacteria	Estimated	16 hours	LOEC	>10,000 mg/l
Acid	Trade Secret	Bluegill	Estimated	96 hours	LC50	2,321 mg/l
Acid	Trade Secret	Water flea	Estimated	24 hours	EC50	2,350 mg/l
Silicate	Trade Secret		Data not			N/A
Mineral			available or			
			insufficient for			
			classification			
Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Quartz Silica	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l

Quartz Silica	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l

# 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Mineral Salt	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Silicate mineral	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Calcium Carbonate	471-34-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Acid	Trade Secret	Estimated Biodegradation	14 days	Biological Oxygen Demand	77 %BOD/ThO D	OECD 301C - MITI (I)
Silicate Mineral	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Quartz Silica	14808-60-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A

# 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Mineral Salt	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silicate mineral	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Calcium Carbonate	471-34-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Acid	Trade Secret	Estimated Bioconcentrati on		Log of Octanol/H2O part. coeff	-1.64	
Silicate Mineral	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz Silica	14808-60-7	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 Other adverse effects

No information available

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

# **SECTION 14: Transport Information**

Not hazardous for transportation.

#### Marine Transport (IMDG)

UN Number: None assigned.

**Proper Shipping Name:** None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

**Subsidiary Risk:** None assigned. **Packing Group:** None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

#### Air Transport (IATA)

UN Number: None assigned.

Proper Shipping Name: None assigned.

Technical Name: None assigned.

Hazard Class/Division: None assigned.

Subsidiary Risk: None assigned.

Packing Group: None assigned.

Limited Quantity: None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

# **SECTION 15: Regulatory information**

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

#### Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Industrial Safety and Health Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

## **SECTION 16: Other information**

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

3M Malaysia SDSs are available at www.3M.com.my