Product Name: Z-3306 White/Grey MSDS ID Number: Z-01811

MSDS Date: 08/01/2011

### **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	Monokote Z-3306 White/Grey
MSDS Number:	Z-01811
Cancelled MSDS Number:	Z-01752
MSDS Date:	08/01/2011
Chemical Family Name:	Cementious Mixture.
Product Use:	Thermal Barrier
Chemical Formula:	Blend of Portland Cement, Clay, Cellulose & Chopped Glass Filament.
CAS # (Chemical Abstracts Service	Mixture-NA
Number):	

Manufactured by:

W.R.Grace & CoConn.	Grace Canada, Inc.
62 Whittemore Avenue	294 Clements Road West
Cambridge, MA 02140	Ajax, Ontario L1S 3C6

# In Case of Emergency Call:

In USA: (617) 876-1400 In Canada: (905) 683-8561

# SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Percent (max)
Fuller's earth	008031-18-3	1-10
Chopped continuous glass filament	065997-17-3	1-10
Polystyrene	009003-53-6	1-10
Portland cement	065997-15-1	50-100
Pulp, cellulose	065996-61-4	1-10
Quartz	014808-60-7	< 1

### **SECTION 3 - HAZARDS IDENTIFICATION**

### Emergency Overview:

#### Warning!

Irritating to eyes, skin and respiratory system. Prolonged exposure may cause alkali burns resulting in damage to skin and eyes. Prolonged exposure may cause risk of lung disease (i.e. silicosis and/or lung cancer)

# HMIS Rating:

2*
0
0
E (See Section 8)

#### Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Exposure may aggravate chronic respiratory conditions such as asthma or broncchitis. Long-term inhalation of dust may increase risk of contracting pneumoconiosis ("dusty lungs") and reduced pulmonary function.

Prolonged inhalation of respirable crystalline silica dust can result in lung disease (i.e.

silicosis and/or lung cancer). Symptoms include coughing, shortness of breath, wheezing

and reduced pulmonary function.

Eye Contact: Eye contact causes irritation.

Prolonged contact may cause burns due to the alkaline nature of cement.

Direct contact with Monokote spray may cause physical injury.

Skin Contact: Skin contact causes irritation.

Prolonged skin contact causes burns especially if skin or product is wet. This may occur without warning since little heat is sensed.

Prolonged skin contact can result in permanent damage.

May cause sensitization due to Hexavalent chromium contained in Portland Cement.

Product Name: Z-3306 White/Grey MSDS ID Number: Z-01752

MSDS Date: 07/11/2008

Exposure to skin may produce "cement" dermatitis which is due to the alkaline and abrasive properties of cement dust.

Skin Absorption: Not expected to be harmful if absorbed through the skin.

Ingestion: If ingested, causes irritation or burns to the linings of the mouth, esophagus and stomach.

# **SECTION 4 - FIRST AID MEASURES:**

Skin Contact: Wash with soap and water.
If discomfort or irritation persists, consult a physician.
Remove contaminated clothing and wash before reuse.
Eye Contact: Flush eyes with water for at least 15 minutes while holding eyelids open.
Get immediate medical attention.
Ingestion: Do not induce vomiting.
Never give anything by mouth to an unconscious person.
If discomfort or irritation persists, consult a physician.
Inhalation: If symptoms develop, get fresh air. If symptoms persist, consult a physician.
If breathing has stopped, give artificial respiration then oxygen if needed.

# SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Not Applicable
Not Applicable
Not Available
Not Available
Not Available

# NFPA Rating:

<u>vaung.</u>	
Health:	2
Flammability:	0
Reactivity:	0
Extinguishing Media: Not Ap	plicable. Product will not burn.
Special Fire Fighting Proced	lures: None

No special procedures specific to this product.

Unusual Fire and Explosion Hazards: None unless noted below.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES:

**Spills/Leaks:** If spilled, prevent material from entering water systems. Observing the listed Precautionary Measures found in Section 7 of this document. Dry spills should be immediately swept up and placed in a suitable container to prevent further release of material. Slurry spills should be immediately contained (to minimize the extent of the spill) and absorbed with an inert, non-combustible material. Place material in a suitable container to prevent further release. Use proper personal protective equipment. Do not flush to sewer or allow to enter waterways.

# SECTION 7 - HANDLING AND STORAGE

#### Precautionary Measures:

Avoid contact with eyes, skin and clothing. Wear skin and eye protection to avoid contact with dust or spray. Avoid creating and inhaling airborne dust or particulates. Practice good personal hygiene to avoid ingestion. Use only with adequate ventilation. Wash clothing before reuse. Equip mixers with dust covers. Provide respiratory protection if needed. Wear skin and eye protection to avoid contact with dust or spray. Post "Slippery When Wet" signs where appropriate. Use anti-slip surfaces on working platforms. FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

#### MSDS Date: 07/11/2008

# SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

# **EXPOSURE GUIDELINES (US)**

Ingredient ACGIH TLV		_	OSHA PEL			Other	
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Fuller's earth	-	-	-	-	-		-
Chopped continuous glass filament	-	-	-	-	-		-
Polystyrene	-	-	-	-	-		-
Portland cement	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)	-	-	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	-		-
Pulp, cellulose	-	-	-	-	-		-
Quartz	0.025 mg/m3 TWA (respirable fraction)	-	-	((250)/(%SiO2 + 5) mppcf TWA (respirable)); ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust))	-	-	
Vinyl Acetate Polymer	-	-	-	-	-		-

In addition to the exposure limits referenced above, the following non-specific limits for dust apply to this product; OSHA, 15 mg/m3-TWA or Total Dust and 5 mg/m3-TWA as Respirable Dust, ACGIH, 10 mg/m3-TWA as Total Dust and 3 mg/m3-TWA as Respirable Dust.

### EXPOSURE GUIDELINES (CANADA)

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

**Engineering Controls:** Exhaust fans may be necessary when mixing in enclosed areas.

# Personal Protective Equipment:

**Respiratory Protection:** Wear approved respiratory protection (generally a N-95 dust mask) to prevent employee exposure from exceeding the limits specified.

Skin Protection: Work gloves or hand creams are recommended to prevent drying of skin.

**Eye Protection:** At minimum, safety glasses with side shields should be worn where exposure to excessive dust or spray is likely.

Work/Hygienic Practices: Use good personal hygiene practices.

Use bag opening and disposal procedures which minimize dust release. Equip mixers with dust covers to minimize dust released during mixing cycle. After each work shift, workers should shower with soap and water. Work clothing should be changed daily.

Prior to welding or cutting, product must be removed from steel surfaces in those immediate areas where exposure to excessive heat, applied either directly or through conduction, from cutting or welding operations is possible.

Remove material in a manner so as to minimize the creation of dust. All trades should minimize the release of dust during removal of materials by:

- Applying a spray mist of water to wet product, prior to its removal.
- Removing small areas of fireproofing at one time.
- Maintaining a clean worksite.

Quartz (Crystalline silica) is a naturally-occurring mineral that is commonly contained in materials that are mined from the earth's surface such as sand, limestone, clay and gypsum (Calcium sulfate). Total quartz is a value usually representing the combined fractions of large, nonrespirable sized particles and of respirable sized particles (less than ten microns in aerodynamic diameter). It is only the respirable fraction of total quartz that is recognized as hazardous by professionals in the field of Occupational Health and by most regulatory agencies. Clay contained in this product may contain very small particles which might be described as microfibrous (0.02-0.1 Åm diameter and 0.1-2.5 Åm in length with a mean particle length of 0.4 Åm). These particles are not regulated. Studies to date show that these particles are not fibrogenic nor carcinogenic and unlikely to cause pulmonary dysfunction. Portand Cement may contain trace amounts of heavy metals recognized as carcinogens by NTP, OSHA or IARC.

Product Name: Z-3306 White/Grey

MSDS ID Number: Z-01752		MSDS Date: 07/11/2008					
SECTION 9 - PHYSICAL AND CHEMIC	AL PROPER	TIES					
Physical State:		Solid					
Appearance/Odor:		Coarse, free f	lowing white	to grey pov	wder, no o	dor.	
Odor Threshold: (ppm)		Not Available	-				
pH:		11 - 13					
Vapor Pressure: (Mm Hg)	1	Not Applicable	e				
Vapor Density: (Air = 1)	ι	Unknown					
Solubility In Water:	ç	Slight					
Specific Gravity: (Water = 1)		Not Applicable					
Evaporation Rate: (Butyl Aceta		Not Applicable					
Boiling Point:		Not Applicable	e				
Viscosity:		Jnknown					
Bulk Density: (Pounds/Cubic F		17 - 25					
% Volatiles (gr/L): (70°F)	<u> </u>	Not Applicable	9				
SECTION 10 - STABILITY AND REACT							
Chemical Stability:	Stable						
Conditions To Avoid:	Polyunsatura						
	Will not poly						
Hazardous Decomposition						various polymer	
Products:		nperatures in					
		nay generate					
				are releas	ed and trac	ce amounts of	
	•	asphyxiants.					
SECTION 11 - TOXICOLOGICAL INFOR	RMATION						
<u>Ingredient(No data unless listed.)</u>	<u>CA</u>	<u>S Number</u>	<u>LD50 a</u>	<u>nd LC50</u>			
<u>Carcinogenicity:</u>							
Ingredient	IARC	IARC	IARC	NTP	NTP	OSHA	
	Group 1	Group 2A	Group 2B	Known	Suspect	No	
Fuller's earth Chopped continuous glass filament	No No	No No	No No	No No	No No	No No	
Polystyrene	No	No	No	No	No	No	
Portland cement	No	No	No	No	No	No	
Pulp, cellulose	No	No	No	No	No	No	
Quartz	Yes	No	No	Yes	No	Yes	
/inyl Acetate Polymer	No	No	No	No	No	No	
Mutagenicity:	N	ot applicable.					
Teratogenicity:		ot applicable.					
Reproductive Toxicity:	N	ot applicable.					
SECTION 12 - ECOLOGICAL INFORM	TION						
Environmental Fate:	 N	o data availat	ole for produc	ct.			
Ecotoxicity:		o data availat					
SECTION 13 - DISPOSAL CONSIDERA	TIONS						
Waste Disposal Procedures: C disposal firm when characterizin product is not defined as hazard	Consult all reg g waste for d ous. Dispos	lisposal. Acc e of waste in	ording to EP	A (40 CFR with all app	§ 261), wa blicable reg	aste of this ulations.	
Wastes of this product such as e SECTION 14 - TRANSPORTATION INF			ateriai are typ	ncally HUL		1182810005.	

SECTION	14 - TRANSE	PORTATION	INFORMATION

Not Applicable
Not Applicable
Nonhazardous
Not Applicable
Not Applicable

W. R. GRACE

MATERIAL SAFETY DATA SHEET

	MATERIAL SAFETY	DATA SHEE	. I	
Product Name: Z-3306 White/Grey MSDS ID Number: Z-01752			MSDS	S Date: 07/11/2008
SECTION 15 - REGULATORY INFO	RMATION			
REGULATORY CHEMICAL LISTS:				
	a Campanatian and I			
CERCLA (Comprehensive Respon (None present unless listed below)		iadility Act)		
		\&/4	0/	
Chemical Name	<u>CAS #</u>	<u>Wt</u>	70	<u>CERCLA RQ</u>
SARA Title III (Superfund Amendm		<u>on Act)</u>		
SARA Section 312/Tier I & II Hazar	0			
Health Immediate (acute)	Yes			
Health Delayed (chronic) Flammable	Yes No			
Reactive	No			
Pressure	No			
302 Reportable Ingredients (Identif	fication Threshold 1%.):			
Chemical Name	CAS #	Wt	%	SARA 302 TPQ
313 Reportable Ingredients (Chem			_	
Chemical Name		CAS #		Wt %
Vinyl acetate		000108-0	)5-4	.00086
National Volatile Organic Compour	nd Emission Standards	For Archite	ctural Co	atings:
Volatile Organic Content:				<b>X</b>
WHMIS Classification(s):	D2 A			
This product has been classified in a			ne Contro	lled Products Regulations
(CPR). This MSDS contains all the ir	nformation required by the	e CPR.		
State Regulatory Information:				
				to the state of California to
	cancer, birth defects or ot	-		
Massachusetts Hazardous Substa	nce List(identification tr		01%(1pp	
Chemical Name		<u>CAS #</u> 000108-0		<u>Wt %</u>
Vinyl acetate Quartz		014808-6		.00086 .8494
New Jersey Hazardous Substance	List/Identification three			.0494
			<u>l-</u>	<b>18/</b> 4 0/
Chemical Name		<u>CAS #</u>		<u>Wt %</u>
Pennsylvania Hazardous Substanc	ce List(identification three		<u>%):</u>	
Chemical Name		<u>CAS #</u>		<u>Wt %</u>
CHEMICAL INVENTORY STATUS:	ata di an avanant fuana liat			
All chemicals in this product are li	-	-		
US CANADA EURO TSCA DSL NDSL EINE	OPEAUSTRALIACS/ELINCSAICS	JAPAN ENCS	KOREA ECL	PHILIPPINES PICCS
Yes Yes No Yes	Yes	Yes	Yes	Yes
SECTION 16 - OTHER INFORMATIO	 ON			
Non-Hazardous Ingredient Disclos				
Chemical Name         CAS Number           Vinyl Acetate Polymer         NJ801415089P         1-10				
Prepared by:	EH&S Departm			· · · ·
Approved by:	EH&S Departm			
Approved Date:	08/01/2011			
Disclaimer:				
"The data included herein are presen	ted in accordance with va	rique enviro	nment he	alth and safety regulations. It is
The data merdada herein are preces			millionit, ne	

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."