MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name Mineral Core

Product useCore for fire door and temperature rise metal doors

Product List See Product List found in Section 16

Manufacturer information Georgia-Pacific Gypsum LLC

133 Peachtree Street, NE Atlanta. GA 30303

MSDS Request 404.652.5119 Technical Information 800.225.6119 Chemtrec - Emergency 800.424.9300

2. Hazards Identification

Emergency overview CAUTION!

Sawing, sanding, drilling, or routing this product may generate dust. Dust can be irritating to

the eyes, skin, and respiratory system.

Potential health effects

Eyes Dust may cause eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with possible redness and swelling.

Skin Dust may produce itching, rash, and redness. Handling can cause dry skin.

Inhalation Dust may cause respiratory tract irritation.

Ingestion Not applicable under normal conditions of use. May result in obstruction or temporary

irritation of the digestive tract.

3. Composition / Information on Ingredients

Components	CAS#	Percent/Wt	
PERLITE	93763-70-3	40 - 70	
GYPSUM (CALCIUM SULFATE)*	7778-18-9	15 - 40	·
SODIUM SILICATE***	1344-09-8	10 - 30	
FIRECLAYS**	Varied	10 - 30	
PORTLAND CEMENT*	65997-15-1	7 - 13	
DIATOMACEOUS EARTH**	68855-54-9	5 - 10	
CRISTOBALITE**	14464-46-1	3 - 7	
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	1 - 5	
POLYVINYL ALCOHOL*	9002-89-5	1 - 5	
CONTINUOUS FILAMENT GLASS FIBERS	65997-17-3	0.5 - 1.5	

Composition comments

- * Contained only in White Core FD OR-001/MO-001 formulas.
- ** Contained only in Blue Core FD OR-002 formula.
- *** Contained only in White Core FD MO-001/Blue Core FD OR-002 formulas.

Gypsum (calcium sulfate), Portland Cement, perlite, fireclays, and diatomaceous earth contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. See Section 8 for exposure information.

The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

Material name: Mineral Core MSDS NA

ID: GP-73C Effective date: 09-09-2009

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek

medical attention.

Skin contact For skin contact, wash immediately with soap and water. Get medical attention if irritation

develops or persists.

Remove to fresh air. If symptoms persist, obtain medical attention. Inhalation May result in obstruction and irritation if ingested. Get medical attention. Ingestion

5. Fire Fighting Measures

Not flammable by OSHA/WHMIS criteria. Flammable properties

Extinguishing media

Suitable extinguishing

media

Treat for surrounding material.

Protection of firefighters

Protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Explosion data

Sensitivity to static

discharge

Not applicable.

Sensitivity to mechanical

impact

Not applicable.

Hazardous combustion

products

May include, and are not limited to: calcium oxide and sulfur dioxide.

6. Accidental Release Measures

Personal precautions Use personal protection recommended in Section 8. Keep unnecessary personnel away from

the release.

Environmental precautions

Keep out of drains, sewers, ditches, and waterways. Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to **Methods for containment**

enter waterways. Use personal protection recommended in Section 8.

Methods for cleaning up Sweep up or gather material and place in appropriate container for disposal.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Use only in well-ventilated areas.

Handle with care. Do not eat or drink while using the product. Wash hands before eating,

drinking, or smoking.

Keep away from children. Store level and keep dry. Dewpoint or other conditions causing the Storage

presence of moisture can damage the product during storage.

Material name: Mineral Core MSDS NA

8. Exposure Controls / Personal Protection

PERLITE (CAS # 93763-70-3)

	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA	Not established	Not established
DSHA	(respirable fraction) 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established
GYPSUM (CALCI	UM SULFATE)* (CAS # 7778-18-9)		
	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable	Not established	Not established
OSHA	fraction) 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established
FIRECLAYS** (C	AS # Varied)		
	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction)	Not established	Not established
OSHA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established
DIATOMACEOUS	S EARTH** (CAS # 68855-54-9)		
	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction)	Not established	Not established
OSHA	(80 mg/m3)/(%SiO2)	Not established	Not established
PORTLAND CEM	ENT* (CAS # 65997-15-1)		
	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica)	Not established	Not established
OSHA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established
CRISTOBALITE*	* (CAS # 14464-46-1)		
	TWA	STEL	Ceiling
ACGIH	0.025 mg/m3 TWA (respirable fraction)	Not established	Not established
OSHA	1/2 ((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); 1/2 ((30)/(%SiO2 + 2) mg/m3 TWA (total dust)); 1/2 ((250)/(%SiO2 + 5) mppcf TWA (respirable))	Not established	Not established
SODIUM SILICAT	E*** (CAS # 1344-09-8)		
	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA	Not established	Not established

Material name: Mineral Core MSDS NA

OSHA 15 mg/m3 TWA (total dust); 5 Not established

mg/m3 TWA (respirable

fraction)

POLYVINYL ALCOHOL* (CAS # 9002-89-5)

	TWA	STEL	Ceiling
ACGIH	10 mg/m3 TWA (inhalable fraction); 3 mg/m3 TWA (respirable fraction)	Not established	Not established
OSHA	15 mg/m3 TWA (total dust); 5 mg/m3 (respirable fraction)	Not established	Not established

Not established

CONTINUOUS FILAMENT GLASS FIBERS (CAS # 65997-17-3)

	TWA	STEL	Ceiling	
ACGIH	1 fiber/cm3 TWA (respirable fibers, length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination); 5 mg/m3 TWA (inhalable fraction)	Not established	Not established	
OSHA	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	Not established	Not established	

CRYSTALLINE SILICA (QUARTZ) (CAS # 14808-60-7)

	TWA	STEL	Ceiling	
ACGIH	0.025 mg/m3 TWA (respirable fraction)	Not established	Not established	
OSHA	((10)/(%SiO2 + 2) mg/m3 TWA (respirable)); ((30)/(%SiO2 + 2) mg/m3 TWA (total dust)); ((250)/(%SiO2 + 5) mppcf TWA (respirable))	Not established	Not established	

Exposure guidelines * - Contained only in White Core FD OR-001/MO-001 formulas.

** - Contained only in Blue Core FD OR-002 formula.

*** - Contained only in White Core FD MO-001/Blue Core FD OR-002 formulas.

Engineering controlsWhen sawing, sanding, drilling, or routing this product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if

appropriate, to reduce generation of dust.

Personal protective equipment

Eye / face protection

Safety glasses or goggles are recommended when using this product. Ensure compliance
with OSHA's PPE standard (29 CER 1910 132 and 133) for eye and face protection. Safety

with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection. Safety shower/eye wash fountain must be readily available in the workplace area (29 CFR

1910.151(c)).

Skin protection Impervious protective clothing and gloves recommended to prevent drying or irritation of skin.

Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29

CFR 1910.151 (c)).

Respiratory protection A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas

or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following

requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard

for respiratory protection (Z88.2)

9. Physical & Chemical Properties

ColorGrey, blueOdorOdorlesspH7 - 9

Freezing point Not applicable

Material name: Mineral Core MSDS NA

Boiling pointNot applicableFlash pointNot applicableFlammabilityNot FlammableFlammability limits in air,Not applicable

upper, % by volume

Flammability limits in air,

lower, % by volume

Not applicable

Vapor pressureNot applicableVapor densityNot applicable

Specific gravity 0.5

Solubility (water) <0.2 at 22°C
Auto-ignition temperature Not applicable
VOC Not available
Percent volatile Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

Conditions of Reactivity None known.

Incompatible materials None known.

Hazardous decomposition

products

May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological Information

Toxicological information (Ingredients)

GYPSUM (CALCIUM SULFATE)* (CAS # 7778-18-9)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Mouse: 5824 mg/kg

Oral LD50 Rat: 3000 mg/kg

SODIUM SILICATE*** (CAS # 1344-09-8)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 1153 mg/kg

Dermal LD50 Rabbit: 4640 mg/kg

POLYVINYL ALCOHOL* (CAS # 9002-89-5)

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 20000 mg/kg

CRYSTALLINE SILICA (QUARTZ) (CAS # 14808-60-7)

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 500 mg/kg

Sensitization Not expected to be hazardous by OSHA/WHMIS criteria.

Acute effects In 1987, IARC classified continuous filament glass fibers as a Group 3 substance, "not

classifiable as to its carcinogenicity to humans." In 2001, IARC reaffirmed this designation. Continuous filament glass fibers are not considered respirable due to their large diameter.

Chronic effects Not expected to be hazardous by OSHA/WHMIS criteria.

Exposure to respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to a respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of respirable crystalline silica exposure and the length of time (usually years) of exposure.

The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

Material name: Mineral Core MSDS NA

ID: GP-73C Effective date: 09-09-2009

Carcinogenicity Hazardous by OSHA/WHMIS criteria.

CRISTOBALITE** (CAS # 14464-46-1)

ACGIH - Threshold Limit Values - Carcinogens

IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Known

Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

CRYSTALLINE SILICA (QUARTZ) (CAS # 14808-60-7)

ACGIH - Threshold Limit Values - Carcinogens

IARC - Group 1 (Carcinogenic to Humans)

NTP (National Toxicology Program) - Report on Carcinogens - Known

Human Carcinogens

U.S. - OSHA - Hazard Communication Carcinogens

Not expected to be hazardous by OSHA/WHMIS criteria. Mutagenicity Reproductive effects Not expected to be hazardous by OSHA/WHMIS criteria. Not expected to be hazardous by OSHA/WHMIS criteria. **Teratogenicity**

Not available. Synergistic materials

12. Ecological Information

Ecotoxicity Not considered to be harmful to aquatic life.

GYPSUM (CALCIUM SULFATE)* (CAS # 7778-18-9)

Ecotoxicity - Freshwater Fish Species Data 96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static]; 96 Hr

LC50 Pimephales promelas:>1970 mg/L [static]

SODIUM SILICATE*** (CAS # 1344-09-8)

Ecotoxicity - Freshwater Fish Species Data 96 Hr LC50 Lepomis macrochirus: 301-478 mg/L; 96 Hr LC50

Brachydanio rerio:3185 mg/L [semi-static]

A2 - Suspected Human Carcinogen

A2 - Suspected Human Carcinogen

Known Human Carcinogen

Known Carcinogen

Present

Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)

Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)

13. Disposal Considerations

This product, in its present state, when discarded or disposed of, is not a hazardous waste **Disposal instructions**

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste.

14. Transport Information

Department of Transportation (DOT) Requirements

This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.

Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 313 hazardous

Nο

chemical

Canadian regulations

CRISTOBALITE** (CAS # 14464-46-1)

Canada - WHMIS - Ingredient Disclosure List 1 %

CRYSTALLINE SILICA (QUARTZ) (CAS # 14808-60-7)

Canada - WHMIS - Ingredient Disclosure List 1 %

DIATOMACEOUS EARTH** (CAS # 68855-54-9)

Canada - WHMIS - Ingredient Disclosure List 1 %

Material name: Mineral Core MSDS NA

16. Other Information

Product list

 White Core FD
 OR-001

 Blue Core FD
 OR-002

 White Core FD
 MO-001

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 0 Instability: 0

Other information Products on this MSDS do not contain asbestos.

Disclaimer The information and data herein are believed to be accurate and have been compiled from

sources believed to be reliable. It is offered for your consideration, investigation and

verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Georgia-Pacific and its

subsidiaries make no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability

and fitness for a particular purpose are specifically excluded. Georgia-Pacific and its

subsidiaries will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are

inaccurate, incomplete or otherwise misleading.

 Effective Date
 09-Sep-2009

 Supercedes
 18-Dec-2007

Prepared by Georgia-Pacific LLC

404.652.5119

Material name: Mineral Core MSDS NA