

1. Product and Company Identification

Material name	Fireguard® Gypsum Boards
Product use	Non-cumbustible gypsum boards used in wall, floor, and ceiling applications.
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! Cutting, sanding, or otherwise working with this product may generate large amounts of dust. Dust can be irritating to the eyes, skin, and respiratory system.
Target organs	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 and glass fibers 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 and temporary irritation of the digestive tract.

3. Composition / Information on Ingredients

Components	CAS #	Percent
GYPSUM (CALCIUM SULFATE)	10101-41-4	60 - 100
VERMICULITE (NON-ASBESTOS CONTAINING)**	1318-00-9	3 - 7
CRYSTALLINE SILICA (QUARTZ)*	14808-60-7	1 - 5
CONTINUOUS FILAMENT GLASS FIBER	65997-17-3	0.1 - 1

Composition comments Gypsum (calcium sulfate) and vermiculite 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.

** Found in products in List B, Section 16 of this MSDS.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin contact	For skin contact, wash immediately with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. If symptoms persist, obtain medical attention.
Ingestion	May result in obstruction and irritation if ingested. Get medical attention.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA/WHMIS criteria.

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.

Methods for containment

Contain the spill, then place in a suitable container. Minimize dust generation.

Methods for cleaning up

Sweep up or gather material and place in an appropriate container for disposal. Utilize wet methods, if appropriate, to minimize dust.

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.

Storage

Store level and keep dry. Dewpoint or other conditions causing the presence of moisture can damage the product during storage.

8. Exposure Controls / Personal Protection

GYPSUM (CALCIUM SULFATE) (CAS # 10101-41-4)

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

VERMICULITE (NON-ASBESTOS CONTAINING)** (CAS # 1318-00-9)

	TWA	STEL	Ceiling
ACGIH	10 mg/m ³ TWA (inhalable fraction); 3 mg/m ³ TWA (respirable fraction)	Not established	Not established
OSHA	15 mg/m ³ TWA (total dust); 5 mg/m ³ 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)/(%SiO ₂ + 2) mg/m3 TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m3 TWA (total dust)); ((250)/(%SiO ₂ + 5) mppcf TWA (respirable))	Not established	Not established

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

	TWA	STEL	Ceiling
ACGIH	5 mg/m3 TWA (inhalable fraction); 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])	Not established	Not established
OSHA	Not established	Not established	Not established

Exposure guidelines *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.

**Found in products in List B, Section 16 of this MSDS.

Engineering controls Score and snap method recommended. When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the 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 CFR 1910.132 and .133) for eye and face protection. Safety shower/eye wash fountain is recommended 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

Appearance	Gypsum boards
Color	Facing color varies
Form	Solid
Odor	Low odor
Odor threshold	Not available
pH	7
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Not Flammable
Flammability limits in air, upper, % by volume	Not applicable
Flammability limits in air, lower, % by volume	Not applicable

Vapor pressure	Not applicable
Vapor density	Not applicable
Specific gravity	2.2 - 2.4
Octanol/H2O coeff	Not available
Solubility (water)	0.2 % @ 22°C
Auto-ignition temperature	Not applicable
Viscosity	Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions of Reactivity	Contact with strong acids produces carbon dioxide.
Incompatible materials	Acids.
Hazardous decomposition products	May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological Information

Toxicological information No toxicological data available for this product. Toxicological information for components of this product is listed below.

Toxicological information (Ingredients)

GYPSUM (CALCIUM SULFATE) (CAS # 10101-41-4)

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Mouse: 5824 mg/kg

Oral LD50 Rat: 3000 mg/kg

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

Toxicology Data - Selected LD50s and LC50s

Oral LD50 Rat: 500 mg/kg

Routes of exposure	Eyes, skin, respiratory system.
Sensitization	Not expected to be hazardous by OSHA/WHMIS criteria.
Chronic effects	Not expected to be hazardous by OSHA/WHMIS criteria.
Carcinogenicity	Not expected to be hazardous by OSHA/WHMIS criteria.
Mutagenicity	Not expected to be hazardous by OSHA/WHMIS criteria.
Reproductive effects	Not expected to be hazardous by OSHA/WHMIS criteria.
Teratogenicity	Not expected to be hazardous by OSHA/WHMIS criteria.
Synergistic materials	Not available.

12. Ecological Information

Ecotoxicity Not considered to be harmful to aquatic life.

GYPSUM (CALCIUM SULFATE) (CAS # 10101-41-4)

Ecotoxicity - Freshwater Fish Species Data

96 Hr LC50 Lepomis macrochirus: 2980 mg/L [static]; 96 Hr LC50 Pimephales promelas: >1970 mg/L [static]

13. Disposal Considerations

Disposal instructions 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 No
Section 311 hazardous chemical Yes
Section 313 hazardous chemical No

Canadian regulations

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

Canada - WHMIS - Ingredient Disclosure List 1 %

Inventory status

Country(s) or region	Inventory name	Compliant w/inventory requirements (yes/no)
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other Information

Product list

Product List A:
 Toughrock® Fireguard® Gypsum Board
 Toughrock® Fireguard® Veneer Plaster Board
 Toughrock® Fireguard® Backer Board
 Toughrock® Fireguard® Soffit Board
 Toughrock® Fireguard® Abuse-Guard Gypsum Board
 Toughrock® Mold-Guard™ Type-X Gypsum Board
 DensArmor Plus® Fireguard® High-Performance Interior Panel
 DensArmor Plus® Fireguard® Abuse-Resistant Interior Panel
 DensArmor Plus® Fireguard® Impact-Resistant Interior Panel
 DensShield® Fireguard® Tile Backer
 DensDeck®, DensDeck® Prime, and DensDeck® DuraGuard Fireguard® Roof Board
 DensGlass® Fireguard® Sheathing
 Product List B:
 Toughrock® Fireguard C™ Gypsum Board
 DensArmor Plus® Fireguard C™ High-Performance Interior Panel

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.

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