

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Glass Mat Faced Gypsum Panels
Product Number: (See product list found in section 16)
Product Use: Patented water and mold resistant boards for exterior and interior walls and ceilings, interior floors, countertops, roof decks, elevator shafts and stairwells. FIREGUARD® panels can be used in fire-rated assemblies and area separation walls.
Manufacturer/Supplier: Georgia-Pacific Gypsum LLC
133 Peachtree Street, N.E., Atlanta, GA 30303
Phone Number: (800) 225-6119 (Technical Information)
(404) 652-5119 (MSDS Request)
Emergency Phone: CHEMTREC (800) 424-9300
Date of Preparation: August, 31 2007

Section 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.

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

Potential Health Effects:

- Eye:** 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.
- Ingestion:** Not applicable under normal conditions of use. May result in obstruction and temporary irritation of the digestive tract.
- Inhalation:** May cause respiratory tract irritation.

Medical Conditions Aggravated By Exposure: Because of irritating properties, dust and glass fibers may aggravate preexisting skin, eye, and respiratory conditions.

Target Organs: Skin, eyes and respiratory system.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Gypsum (calcium sulfate)	7778-18-9	60 - 100
Continuous filament glass fibers	65997-17-3	1 - 5
Silica, crystalline, quartz	14808-60-7	0.1 - 1

Gypsum (calcium sulfate) contains naturally occurring silica crystalline (quartz), which is listed as a lung carcinogen. See section 8 for exposure information.

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.
- Inhalation:** Remove to fresh air. If symptoms persist, obtain medical attention.
- Ingestion:** May result in obstruction and irritation if ingested. Get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by OSHA/WHMIS criteria.

Flammable Limits: This product is fire resistant and has the following surface burning characteristics reported by nationally recognized laboratories. Flame Spread, 0 - 25, and Smoke Development, 0 - 20 (ASTH EB4).

Means of Extinction:

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not applicable.

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

Explosion Data:

Sensitivity to Mechanical Impact: Not applicable.

Sensitivity to Static Discharge: Not applicable.

Protection of Firefighters: Firefighters should wear full protective clothing including self contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8 and handling recommendation in Section 7. Maintain appropriate ventilation.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways.

Methods for Containment: Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Use wet methods, if appropriate, to minimize dust.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Do not breathe dust. Use only in well-ventilated areas. Do not use a power saw. Wear appropriate NIOSH approved dust mask or filtering facepiece when permissible exposure limits may be exceeded. When using do not eat or drink. Launder contaminated clothing before reuse.

Storage:

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

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION
Exposure Guidelines

Ingredient	CAS #	Exposure Limits	
		OSHA-PEL	ACGIH-TLV
Gypsum (CaSO ₄)	7778-18-9	15 mg/m ³ (total); 5 mg/m ³ (resp)	10 mg/m ³ (total)
Continuous filament glass fibers	65997-17-3	Not available.	1 f/cc TWA (respirable fibers: length > 5 μm, aspect ratio equal to or greater than 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.); 5 mg/m ³ TWA (inhalable fraction) related to continuous filament glass fibers).
Silica, crystalline, quartz	14808-60-7	((10 mg/m ³)/(%SiO ₂ +2) TWA (resp)); ((30 mg/m ³)/(%SiO ₂ +2) TWA (total)); ((250)/(%SiO ₂ +5) mppcf TWA (resp))	0.025 mg/m ³

Engineering Controls: Score and snap method recommended. Do not use power saw. 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 working with the product. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 133 (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 hands. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain must be readily available 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).

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gypsum boards.
Color:	Facing color varies.
Odor:	No odor.
Odor Threshold:	Not available.
Physical State:	Solid.
pH:	6-8
Viscosity:	Not applicable.
Freezing Point:	Not applicable.
Boiling Point:	Not applicable.
Flash Point:	Not applicable.

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Evaporation Rate:	Not available.
Lower Flammability Limit:	Not applicable.
Upper Flammability Limit:	Not applicable.
Vapor Pressure:	Not applicable.
Vapor Density:	Not applicable.
Specific Gravity:	2.2 - 2.4
Solubility in Water:	0.2% @ 22°C
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not applicable.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Contact with strong acids produces carbon dioxide.

Incompatible Materials: None known.

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

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE
Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Gypsum (calcium sulfate)	Not available.	Not available.
Continuous filament glass fibers	Not available.	Not available.
Silica, crystalline, quartz	Not available.	Not available.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Lungs.

Chronic Effects: Hazardous by OSHA/WHMIS criteria.

Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (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 respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

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.

Carcinogenicity: Hazardous by OSHA/WHMIS criteria.

Ingredient

Silica, crystalline, quartz

Chemical Listed as Carcinogen or Potential Carcinogen

ACGIH - A2 - Suspected human carcinogen;
IARC - 1 - The agent is carcinogenic to humans;
NTP - 1 - Known to be carcinogens

Mutagenicity; Reproductive Effects; Teratogenicity; Embryotoxicity; Respiratory Sensitization; Skin Sensitization: Not hazardous by OSHA/WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not considered to be harmful to aquatic life.

LC/EC₅₀
Freshwater Fish Species Data:

Gypsum (calcium sulfate) 7778-18-9 96 Hr LC50 *Lepomis macrochirus*: 2980 mg/L (static)

Water Flea Data:

Gypsum (calcium sulfate) 7778-18-9 120 Hr EC50 *Nitscheria linearis*: 3200 mg/L

Section 13: DISPOSAL CONSIDERATIONS
Disposal Instructions:

This product, if discarded as supplied, is not considered a hazardous waste under Federal Waste Regulations 40 CFR 261. If processing, use, or contamination alters the material, the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definition of hazardous waste.

Section 14: TRANSPORTATION INFORMATION
DOT Classification

Not regulated

TDG Classification

Not regulated

Section 15: REGULATORY INFORMATION
Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR 29 1910.1200).

SARA Title III
Ingredient

	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Gypsum (calcium sulfate)	Not listed.	Not listed.	Not listed.	Not listed.
Continuous filament glass fibers	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, quartz	Not listed.	Not listed.	Not listed.	Not listed.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Gypsum (calcium sulfate)	DSL	Yes.
Continuous filament glass fibers	DSL	Yes.
Silica, crystalline, quartz	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 1* Flammability - 0 Physical Hazard - 0

NFPA - National Fire Protection Association:

Health - 1 Fire - 0 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Chronic Toxic Effects

WHMIS Hazard Symbols:

Section 16: OTHER INFORMATION
Other Information:

Products on this MSDS do not contain asbestos.

Product List:

- DensArmor®
- Dens Armor Plus® Abuse Guard® Paperless Interior Drywall
- DensArmor® FIREGUARD® C
- DensArmor Plus® Interior Panel
- DensArmor Plus® FIREGUARD® Interior Panel
- DensArmor Plus® FIREGUARD® C
- Dens-Core®
- DensDeck DuraGuard® Roof Board
- DensDeck® Roof Board
- DensDeck® FIREGUARD® Roof Board
- DensDeck Prime® Roof Board
- DensGlass Gold® Exterior Sheathing
- DensGlass Gold® FIREGUARD® Exterior Sheathing
- DensGlass Silver® Residential Sheathing
- DensGlass® Ultra Shaftliner™ Guard
- DensMarine® Bulkhead Panel
- DensShield® FIREGUARD® Tile Guard
- DensShield® Tile Backer
- DensGuard® Tile Backer

Disclaimer:

IMPORTANT: 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 that the information and data are inaccurate, incomplete or otherwise misleading.

Supersedes: 06/08/07**Prepared by:** Georgia-Pacific LLC
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