

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **Glass Mat-Faced Gypsum Panels**
Product use Patented water and mold resistant boards.
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/Wt
GYPSUM (CALCIUM SULFATE)	7778-18-9	60 - 100
CONTINUOUS FILAMENT GLASS FIBER	65997-17-3	1 - 5
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	0.1 - 1
Composition comments	Gypsum (calcium sulfate) contains naturally occurring silica crystalline (quartz), which is listed as a lung carcinogen. See Section 8 for exposure information.	

4. First Aid Measures

First aid procedures
 Eye contact In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, seek 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.

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 and handling recommendation in Section 7. Keep unnecessary personnel away from the release.

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 personal protection recommended in Section 8.

Methods for cleaning up Scoop up material and place in a disposal container. Utilize wet methods, if appropriate, to minimize dust.

7. Handling and Storage

Handling Avoid contact with skin and eyes. 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 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 # 7778-18-9)**

	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

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

	TWA	STEL	Ceiling
ACGIH	1 fiber/cm ³ 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	Not established	Not established
OSHA	Not established	Not established	Not established

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

	TWA	STEL	Ceiling
ACGIH	0.025 mg/m ³ TWA (respirable fraction)	Not established	Not established
OSHA	((10)/(%SiO ₂ + 2) mg/m ³ TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust)); ((250)/(%SiO ₂ + 5) mppcf TWA (respirable))	Not established	Not established

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 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

Color	Facing color varies
Odor	Odorless.
pH	6 - 8
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	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
Solubility (water)	0.2 % @ 22°C
Auto-ignition temperature	Not applicable
VOC	Not available
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	None known.
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.
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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

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.

Chronic effects

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.

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.

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

A2 - Suspected Human Carcinogen

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

Known Human Carcinogen

Present

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 # 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]**13. Disposal Considerations****Disposal instructions**

This product, if discarded, is not considered a hazardous waste under Federal Hazardous 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 definitions of hazardous wastes.

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 - No
Delayed Hazard - Yes
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

WHMIS classification

D2A - Other Toxic Effects-VERY TOXIC

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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

Canada - WHMIS - Ingredient Disclosure List

1 %

16. Other Information**Product list**

DensArmor®
DensArmor® FIREGUARD® C
DensArmor Plus® Abuse-Resistant Interior Panel
DensArmor Plus® Impact-Resistant Interior Panel
DensArmor Plus® High-Performance Interior Panel
DensArmor Plus® FIREGUARD® Interior Panel
DensArmor Plus® FIREGUARD® C
DensDeck DuraGuard® Roof Board
DensDeck® Roof Board
DensDeck® FIREGUARD® Exterior Sheathing
DensDeck Prime® Roof Board
DensGlass™ Exterior Sheathing
DensGlass™ FIREGUARD® Exterior Sheathing
DensGlass Silver® Residential Sheathing
DensGlass® Ultra Shaftliner
DensShield® FIREGUARD® Tile Backer
DensShield® Tile Backer
DensGuard® Tile Backer

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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Prepared by

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