

SAFETY DATA SHEET

1. Identification

Product identifier

Product list

Glass Mat Faced Gypsum Panels

Product List A

DensArmor Plus® Interior Panel
DensArmor Plus® Fireguard® Abuse-Resistant Panels
DensArmor Plus® Fireguard® Impact-Resistant Panels
DensArmor Plus® Fireguard® Interior Panels
DensDeck® Prime Roof Board
DensDeck® Roof Board
DensDeck® Prime Fireguard® Roof Board
DensDeck® Fireguard® Roof Board
DensElement™ Sheathing
DensGlass® Fireguard® Sheathing
DensGlass® Shaftliner
DensGlass® Sheathing
DensShield® Fireguard® Tile Backer
DensShield® Tile Backer

Product List B

DensArmor Plus® Fireguard C® Interior Panels

Other means of identification

Product code

GP-71C

Recommended use

Products accommodate a wide range of wall, floor, ceiling and roof applications.

Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Georgia-Pacific Gypsum LLC

Address

133 Peachtree Street, NE
Atlanta, GA 30303

Telephone

Technical Information: 800.225.6119
(M)SDS Request: 404.652.5119

e-mail

MSDSREQ@GAPAC.COM

Emergency phone number

Chemtrec - Emergency: 800.424.9300

Importer/Supplier/Distributor

Company name

Georgia-Pacific Canada LP

Address

350 Argyle Street North
Caledonia, ON N3W 1M2

Telephone

Technical Information: 800.225.6119
(M)SDS Request: 404.652.5119

e-mail

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Emergency phone number

Chemtrec - Emergency: 800.424.9300

2. Hazard(s) identification

Emergency overview	This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities such as cutting, sanding, or otherwise working with this product that generate large amount of dusts. Those hazards associated with large amount of dusts are described below.	
Physical hazards	Not classified.	
Health hazards	Eye irritation	Category 2B
Environmental hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Causes eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handling. Observe good industrial hygiene practices.	
Response	Wash hands after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Storage	Store away from acids.	
Disposal	Dispose of contents/container in accordance with applicable regulations.	
Other hazards	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CALCIUM SULFATE DIHYDRATE		10101-41-4	≤ 95
VERMICULITE**		1318-00-9	0 - 7
CRYSTALLINE SILICA (QUARTZ)*		14808-60-7	1 - 5
FIBROUS GLASS		65997-17-3	1 - 5

Composition comments ** Found in products in List B, Section 1 of this SDS.

Gypsum (calcium sulfate, dihydrate) 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.

4. First-aid measures

Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove and isolate contaminated clothing and shoes. For skin contact, wash immediately with soap and water. Get medical attention if symptoms occur. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.
Eye contact	Do not rub the eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. May result in obstruction and irritation if ingested. Get medical attention.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Firefighters should wear full protective clothing including self contained breathing apparatus.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Avoid inhalation of dust from the spilled material. In the case of dust or aerosol formation use respirator with an approved filter. Use personal protection recommended in Section 8. Keep unnecessary personnel away.

Methods and materials for containment and cleaning up Minimize dust generation. Sweep up or gather material and place in an appropriate container for disposal. Utilize wet methods, if appropriate, to minimize dust. For waste disposal, see section 13 of the SDS.

Environmental precautions Keep out of drains, sewers, ditches, and waterways.

7. Handling and storage

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed. Minimise dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Do not taste or swallow. Avoid prolonged exposure. Observe good industrial hygiene practices. Use only in well-ventilated areas. Do not eat or drink while using the product. Wash hands before eating, drinking or smoking.

Conditions for safe storage, including any incompatibilities Store level and keep dry. Dewpoint or other conditions causing the presence of moisture can damage the product during storage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

ACGIH Components	Type	Value	Form
FIBROUS GLASS (CAS 65997-17-3)	TWA	5 mg/m3	Inhalable fraction.

US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m3, non-standard units Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m3	Inhalable fraction.
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
FIBROUS GLASS (CAS 65997-17-3)	TWA	1 fibers/cm3	Fiber.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m3	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable particles.
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.2 fibers/cm ³	Fiber.
		5 mg/m ³	Fiber, total
		5 mg/m ³	Total particulate.
VERMICULITE** (CAS 1318-00-9)	TWA	3 mg/m ³	Respirable particles.
		10 mg/m ³	Total particulate.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	STEL	20 mg/m ³	Total dust.
	TWA	10 mg/m ³	Inhalable
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.2 fibers/cm ³	Fiber.
		5 mg/m ³	Inhalable fibers.
VERMICULITE** (CAS 1318-00-9)	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Total dust.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m ³	Inhalable fraction.
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.
FIBROUS GLASS (CAS 65997-17-3)	TWA	1 fibers/cm ³	Fiber.
		5 mg/m ³	Inhalable fraction.

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m ³	Inhalable fraction.
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.1 mg/m ³	Respirable fraction.
FIBROUS GLASS (CAS 65997-17-3)	TWA	0.5 fibers/mL	Respirable fibers.
		5 mg/m ³	Inhalable fraction.
VERMICULITE** (CAS 1318-00-9)	TWA	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.

Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.1 mg/m ³	Respirable dust.
FIBROUS GLASS (CAS 65997-17-3)	TWA	1 fibers/cm ³ n	Fiber.
VERMICULITE** (CAS 1318-00-9)	TWA	10 mg/m ³	Total dust.
		10 mg/m ³	Total dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

*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.

Appropriate 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. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses or goggles are recommended when using this product. Eye wash fountain is recommended.

Skin protection**Hand protection**

For prolonged or repeated skin contact use suitable protective gloves.

Other

Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Safety shower/eye wash fountain is recommended in the workplace area.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Keep away from food and drink.

9. Physical and chemical properties**Appearance**

Gypsum boards

Physical state

Solid.

Form

Solid

Colour

Facing color varies

Odour

Low odor

Odour threshold

Not available.

pH

6 - 8

Melting point/freezing point

Not applicable.

Initial boiling point and boiling range

Not applicable.

Flash point

Not applicable.

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit – upper (%)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	0.2 % @ 22°C
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Flash point class	Not flammable
Specific gravity	2.2 - 2.4

10. Stability and reactivity

Reactivity	Contact with strong acids produces carbon dioxide.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials	Strong acids.
Hazardous decomposition products	May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory irritation.
Skin contact	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis
Eye contact	Dust in the eyes will cause irritation.
Ingestion	Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested.

Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Direct contact with eyes may cause temporary irritation.
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Information on toxicological effects

Acute toxicity

Product	Species	Test results
Glass Mat Faced Gypsum Panels		
Acute		
Oral		
LD50	Rat	1664 mg/kg estimated
Components	Species	Test results
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)		
Acute		
Oral		
LD50	Rat	> 1581 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Dust in the eyes will cause irritation.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

FIBROUS GLASS (CAS 65997-17-3) Irritant

Respiratory sensitisation Not likely to cause respiratory sensitization.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity Not classified.

Carcinogenicity 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

ACGIH Carcinogens

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) A2 Suspected human carcinogen.
FIBROUS GLASS (CAS 65997-17-3) A2 Suspected human carcinogen.
A3 Confirmed animal carcinogen with unknown relevance to humans.
A4 Not classifiable as a human carcinogen.

Canada - Alberta OELs: Carcinogen category

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) Suspected human carcinogen.
FIBROUS GLASS (CAS 65997-17-3) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) Suspected human carcinogen.
FIBROUS GLASS (CAS 65997-17-3) Confirmed animal carcinogen with unknown relevance to humans.
Not classifiable as a human carcinogen.
Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) Suspected carcinogenic effect in humans.
FIBROUS GLASS (CAS 65997-17-3) Detected carcinogenic effect in animals.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not classified.

Chronic effects Not hazardous under normal conditions of use.

Further information *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.

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment. Not considered to be harmful to aquatic life.

Components	Species	Test results
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CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)

Aquatic

Acute

Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	> 1970 mg/l, 96 hours
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CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)

Aquatic

Acute

Fish	LC50	Zebra danio (<i>Danio rerio</i>)	> 10000 mg/l, 96 Hours OECD SIDS
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FIBROUS GLASS (CAS 65997-17-3)

Aquatic

Acute

Fish	LC50	Fish	> 1000 mg/l, 96 hours
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Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Not available.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)

FIBROUS GLASS (CAS 65997-17-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information**Issue date** 03-24-2017**Version No.** 01**Further information** HMIS® is a registered trade and service mark of the NPCA.

Disclaimer This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.

Revision information Product and Company Identification: Synonyms
 Composition / Information on Ingredients: Ingredients
 Physical & Chemical Properties: Multiple Properties
 Toxicological Information: Toxicological Data
 Ecological Information: Ecotoxicity
 HazReg Data: International Inventories
 GHS: Classification