SAFETY DATA SHEET

1. Identification

Product identifier
Glass Mat Faced Gypsum Panels

Product list
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

Other means of identification
Product List B
DensArmor Plus® Fireguard C® Interior Panels

Product code
GP-71C

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

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information
Company name
Georgia-Pacific Gypsum LLC
Address
133 Peachtree Street, NE
Atlanta, GA 30303

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.

OSHA defined 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.
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE</td>
<td></td>
<td>10101-41-4</td>
<td>80 - 100</td>
</tr>
<tr>
<td>VERMICULITE**</td>
<td></td>
<td>1318-00-9</td>
<td>0 - 10</td>
</tr>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER</td>
<td></td>
<td>65997-17-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ)*</td>
<td></td>
<td>14808-60-7</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

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

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

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.

Firefighting 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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Use personal protection recommended in Section 8. Keep unnecessary personnel away.
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. Minimize 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. Wear appropriate NIOSH/MSHA approved dust mask or filtering facepiece if dust is generated. 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

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)</td>
<td>5 mg/m^3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)</td>
<td>15 mg/m^3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-3 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERMICULITE (CAS 1318-00-9)</td>
<td>5 mg/m^3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td>15 mg/m^3</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

ACGIH

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)</td>
<td>5 mg/m^3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)</td>
<td>10 mg/m^3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)</td>
<td>1 fibers/cm^3</td>
<td>Fiber.</td>
</tr>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)</td>
<td>0.025 mg/m^3</td>
<td>Respirable fraction.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)</td>
<td>5 mg/m^3</td>
<td>Respirable.</td>
</tr>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)</td>
<td>10 mg/m^3</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>3 fibers/cm^3</td>
<td>Fibrous dust.</td>
</tr>
<tr>
<td></td>
<td>5 mg/m^3</td>
<td>Fiber, total</td>
</tr>
</tbody>
</table>
**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

**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 Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

**Exposure guidelines**
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 Occupational Exposure Limit (OEL), 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. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection. 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. 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)). 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
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).

**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

**Color**
Facing color varies

**Odor**
Low odor

**Odor 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.
Vapor pressure Not applicable.
Vapor 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.

Information on toxicological effects
Acute toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass Mat Faced Gypsum Panels</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATEmix</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1728 mg/kg</td>
</tr>
</tbody>
</table>

Components

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)</td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td></td>
</tr>
<tr>
<td>Rat</td>
<td>&gt; 1581 mg/kg</td>
</tr>
</tbody>
</table>

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 sensitization

Respiratory sensitization  Not likely to cause respiratory sensitization.
Skin sensitization  This product is not expected to cause skin sensitization.
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.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)  1 Carcinogenic to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
CRystalline SILICA (QUARTZ)* (CAS 14808-60-7)  Cancer
US. National Toxicology Program (NTP) Report on Carcinogens
CRYSsalline 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  Not considered to be harmful to aquatic life.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) &gt; 1970 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish &gt; 1000 mg/l, 96 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRYSsALLINE SILICA (QUARTZ)* (CAS 14808-60-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Zebra danio (Danio rerio) &gt; 10000 mg/l, 96 Hours OECD SIDS</td>
</tr>
</tbody>
</table>

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  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. 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

DOT  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

US federal regulations  This product is not hazardous in the form in which it is sold and shipped by the manufacturer. However, the large amount of dusts generated by downstream activities such as cutting, sanding, or otherwise working with this product is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)  All components of the mixture are designated as "active" on or exempt from the TSCA 8(b) inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)  Not listed.

SARA 304 Emergency release notification  Not regulated.

  lung effects
  immune system effects
  kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)  SARA 302 Extremely hazardous substance  Not listed.

SARA 311/312 Hazardous chemical  Yes

Classified hazard categories  Serious eye damage or eye irritation

SARA 313 (TRI reporting)  Not regulated.

Other federal regulations  Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)  Not regulated.

Safe Drinking Water Act (SDWA)  Not regulated.

US state regulations  California Proposition 65  California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.
CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)
CRYSSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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, including date of preparation or last revision

Issue date: March-13-2015
Revision date: July-25-2019
Version #: 06

HMIS® ratings
Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 0
Instability: 0

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
Composition / Information on Ingredients: Ingredients
Accidental release measures: Methods and materials for containment and cleaning up
Handling and storage: Conditions for safe storage, including any incompatibilities
Regulatory information: US federal regulations
Regulatory information: Toxic Substances Control Act (TSCA)