

SAFETY DATA SHEET

1. Identification

Product identifier

Product list

Paper Faced Gypsum Panels

Product List A

ToughRock® Veneer Plaster Base (Blueboard)
ToughRock® Flexroc® Gypsum Board
ToughRock® Mold-Guard™ Gypsum Board
ToughRock® Basement Board® Gypsum Board
ToughRock® Sound Deadening Gypsum Board
ToughRock® Stretch 54® Gypsum Board
ToughRock® Soffit Board

Product List B

ToughRock® Gypsum Board

Product List C

ToughRock® Span 24® Lite-Weight Ceiling Board
ToughRock® Stretch 54® Lite-Weight Gypsum Board
ToughRock® Lite-Weight Gypsum Board
ToughRock® MH Ceiling Board
ToughRock® Fireguard X® Gypsum Board
Toughrock® Fireguard 45® Gypsum Board

Product List D

ToughRock® Gypsum Sheathing
ToughRock® Span 24® Ceiling Board
ToughRock® Fireguard X® Gypsum Sheathing
ToughRock® Fireguard X® Stretch 54® Gypsum Board
ToughRock® Fireguard X® Mold-Guard™ Abuse-Resistant Gypsum
ToughRock® Fireguard X® Veneer Plaster Board
ToughRock® Fireguard X® Mold-Guard™ Gypsum Board
Toughrock® Fireguard X® Mold-Guard™ Max-Abuse Gypsum Board
Toughrock® Fireguard X® Mold-Guard™ Max-Impact Gypsum Board

Product List E

ToughRock® Shaftliner
ToughRock® Fireguard C® Soffit Board
ToughRock® Fireguard C® Stretch 54® Gypsum Board

Product List F

ToughRock® Lite-Weight Veneer Plaster Base

Product List G

ToughRock® Lite-Weight Fire-Rated Gypsum Board
ToughRock® Fireguard C® Gypsum Board

Other means of identification

Product code

GP-71A

Recommended use

Products accommodate wide range of wall, floor and ceiling applications and soffit treatments.

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

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

Not available.

Emergency phone number

Chemtrec - Emergency 800.424.9300

2. Hazard(s) identification

| | |
|--|---|
| Emergency overview | Cutting, sanding, or otherwise working with this product may generate large amounts of dust. Dust may be irritating to eyes, skin and respiratory system. |
| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| Environmental hazards | Not classified. |
| OSHA defined hazards | Not classified. |
| Label elements | |
| Hazard symbol | None. |
| Signal word | None. |
| Hazard statement | The mixture does not meet the criteria for classification. |
| Precautionary statement | |
| Prevention | Observe good industrial hygiene practices. |
| Response | Wash hands after handling. Get medical advice/attention if you feel unwell. |
| Storage | Store away from incompatible materials (see Section 10 of the SDS). |
| Disposal | Dispose of contents/container in accordance with applicable regulations. |
| Hazard(s) not otherwise classified (HNOC) | 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 | 80 - 100 |
| SILICATE COMPOUND***** | | Proprietary | 1 - 5 |
| VERMICULITE**** | | 1318-00-9 | 1 - 5 |
| BORIC ACID** | | 10043-35-3 | 0.5 - 1.5 |
| CONTINUOUS FILAMENT GLASS FIBERS*** | | 65997-17-3 | 0.5 - 1.5 |
| CRYSTALLINE SILICA (QUARTZ)* | | 14808-60-7 | 0.1 - 1 |
| Other components below reportable levels | | | 0 - 0.1 |

The specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments

** Found in products in List B, C and F, Section 1 of this SDS.

*** Found in products in List C, D, E and F, Section 1 of this SDS.

**** Found in products in List E, F and G, Section 1 of this SDS.

***** Only found in products in List G, Section 1 of this SDS.

Gypsum (calcium sulfate, dihydrate) contains naturally occurring silica crystalline (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.

**Testing conducted by Georgia-Pacific did not detect boric acid 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. |
| Eye contact | Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Do not rub the eyes. |
| Ingestion | May result in obstruction and irritation if ingested. Get medical attention. |

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| Most important symptoms/effects, acute and delayed | Dusts may irritate the respiratory tract, skin and eyes. |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

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| 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. Use water spray to cool unopened containers. |
| 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

| | |
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| Personal precautions, protective equipment and emergency procedures | Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS. 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. |
| Methods and materials for containment and cleaning up | Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. This product is miscible in water. Stop the flow of material, if this is without risk. Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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

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|---|---|
| Precautions for safe handling | Practice good housekeeping. 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. 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 in tightly closed container. 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

| Components | Type | Value | Form |
|--|------|----------|----------------------|
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |

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

| Components | Type | Value | Form |
|---|------|---------------------|-------------------------------------|
| CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) | PEL | 0.05 mg/m3 | Respirable dust. |
| SILICATE COMPOUND***** | PEL | 5 mg/m3 15 mg/m3 | Respirable fraction. Total dust. |

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

| Components | Type | Value | Form |
|---------------------------------|------|---------------------|-------------------------------------|
| SILICATE COMPOUND***** | TWA | 5 mg/m3 15 mg/m3 | Respirable fraction. Total dust. |
| VERMICULITE**** (CAS 1318-00-9) | TWA | 5 mg/m3 15 mg/m3 | Respirable fraction. Total dust. |

ACGIH

| Components | Type | Value | Form |
|--|------|---------|-----------------------|
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | TWA | 3 mg/m3 | Respirable Particles. |
| CONTINUOUS FILAMENT GLASS FIBERS*** (CAS 65997-17-3) | TWA | 5 mg/m3 | Inhalable fraction. |
| VERMICULITE**** (CAS 1318-00-9) | TWA | 3 mg/m3 | Respirable particles. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--|------|--------------|----------------------|
| BORIC ACID** (CAS 10043-35-3) | STEL | 6 mg/m3 | Inhalable fraction. |
| | TWA | 2 mg/m3 | Inhalable fraction. |
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | TWA | 10 mg/m3 | Inhalable fraction. |
| CONTINUOUS FILAMENT GLASS FIBERS*** (CAS 65997-17-3) | TWA | 1 fibers/cm3 | Fiber. |
| CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| SILICATE COMPOUND***** | TWA | 2 mg/m3 | Respirable fraction. |
| VERMICULITE**** (CAS 1318-00-9) | TWA | 10 mg/m3 | Inhalable particles. |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--|------|-------------------------|-------------------------------|
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | TWA | 5 mg/m3 10 mg/m3 | Respirable. Total |
| CONTINUOUS FILAMENT GLASS FIBERS*** (CAS 65997-17-3) | TWA | 3 fibers/cm3 5 mg/m3 | Fibrous dust. Fiber, total |
| CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |
| SILICATE COMPOUND***** | TWA | 5 mg/m3 10 mg/m3 | Respirable. Total |

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|--|---|
| 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. |
| | **Testing conducted by Georgia-Pacific did not detect boric acid 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 | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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. 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. |
| Individual protection measures, such as personal protective equipment | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). 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 | Wear protective gloves. |
| Other | Wear appropriate chemical resistant clothing. 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 | Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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

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|---|-----------------------------|
| Appearance | Paper faced gypsum boards |
| Physical state | Solid. |
| Form | Solid. |
| Color | Facing color varies |
| Odor | Odorless |
| Odor threshold | Not available. |
| pH | 7 |
| Melting point/freezing point | 2642 °F (1450 °C) estimated |
| 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 available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not applicable |
| Vapor density | Not applicable |
| Relative density | 2.2 - 2.4 g/cm ³ |
| 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 | |
| Explosive properties | Not explosive. |
| Flash point class | Not flammable |
| Oxidizing properties | Not oxidizing. |
| Specific gravity | 2.2 - 2.4 |

10. Stability and reactivity

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|---|--|
| 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 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). |
| Incompatible materials | Acids. Aluminum. Phosphorus. |
| 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 | Dust may irritate respiratory system. |
| Skin contact | Dust or powder may irritate the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. |
| Eye contact | Dust generated during processing may cause eye irritation. |
| Ingestion | Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested. |

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity

| Product | Species | Test Results |
|---------------------------|---------|---------------------|
| Paper Faced Gypsum Panels | | |
| Acute | | |
| Dermal | | |
| ATEmix | | 251300 mg/kg |
| Inhalation | | |
| LC50 | Rat | 363.6 mg/l, 4 Hours |
| Oral | | |
| ATEmix | | 1684 mg/kg |

| Components | Species | Test Results |
|--|---|-------------------|
| BORIC ACID** (CAS 10043-35-3) | | |
| Acute | | |
| Inhalation | | |
| LC50 | Rat | > 2 mg/l, 4 Hours |
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 1581 mg/kg |
| SILICATE COMPOUND***** | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | > 5000 mg/kg |
| Oral | | |
| LD50 | Rat | > 5000 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 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. | |
| <p>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.</p> | | |
| 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 | | |
| CONTINUOUS FILAMENT GLASS FIBERS*** Reasonably Anticipated to be a Human Carcinogen. | | |
| (CAS 65997-17-3) | | |
| 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 | Prolonged inhalation may be harmful. Prolonged exposure may cause 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. | |

| Components | Species | Test Results |
|---|---------|---|
| BORIC ACID** (CAS 10043-35-3) | | |
| Aquatic | | |
| Crustacea | EC50 | Daphnia 766.5 mg/L, 48 Hours |
| Fish | LC50 | Razorback sucker (<i>Xyrauchen texanus</i>) > 100 mg/l, 96 hours |
| CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) > 1970 mg/l, 96 hours |
| CONTINUOUS FILAMENT GLASS FIBERS*** (CAS 65997-17-3) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Zebra danio (<i>Danio rerio</i>) > 1000 mg/l, 96 hours ECHA |
| CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Zebra danio (<i>Danio rerio</i>) > 10000 mg/l, 96 Hours OECD SIDS |

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

BORIC ACID** 0.175

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.

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 Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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 known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

This document has undergone significant changes and should be reviewed in its entirety.