MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Paper Faced Gypsum Panels

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

Product list See Product List found in Section 16

Manufacturer information Georgia-Pacific Gypsum LLC

Georgia-Pacific Gypsum II LLC 133 Peachtree Street, NE

Atlanta, GA 3030

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.

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 Dusts of this product may cause irritation to the nose, throat, or respiratory tract.

Ingestion Not applicable under normal conditions of use. May result in obstruction or temporary irritation of

the digestive tract.

3. Composition / Information on Ingredients

Components	CAS#	Percent/Wt	
GYPSUM (CALCIUM SULFATE, DIHYDRATE)	10101-41-4	60 - 100	
VERMICULITE (NON-ASBESTOS CONTAINING)****	1318-00-9	1 - 3	
BORIC ACID**	10043-35-3	0.1 - 1	
CONTINUOUS FILAMENT GLASS FIBERS***	65997-17-3	0.1 - 1	
CRYSTALLINE SILICA (QUARTZ)*	14808-60-7	1 - 5	

Composition comments

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.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

irritation develops or persists.

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

or persists.

InhalationRemove to fresh air. If symptoms persist, obtain medical attention.IngestionMay result in obstruction and irritation if ingested. Get medical attention.

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^{**} Found in products in List B, C and F, Section 16 of this MSDS.

^{***} Found in products in List C, D, E and F, Section 16 of this MSDS.

^{****} Found in products in List E and F, Section 16 of this MSDS.

5. Fire Fighting Measures

Flammable properties Not flammable by OSHA/WHMIS criteria.

Extinguishing media

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

environment.

Fire fighting

equipment/instructions

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

Explosion data

discharge

Sensitivity to static

Not applicable.

Sensitivity to mechanical

impact

Not applicable.

Hazardous combustion

products

Storage

ACGIH

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. Keep unnecessary personnel away from the

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

Methods for containment Contain the spill, then place in a suitable container. Minimize dust generation.

Methods for cleaning up Sweep up or gather material and place in appropriate container for disposal. Utilize wet methods, if

appropriate, to minimize dust.

7. Handling and Storage

Handling Avoid contact with skin and eyes. Use only in well-ventilated areas. Handle and open container

with care. Wear appropriate NIOSH 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.

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

Occupational exposure limits

omponents	Туре	Value	Form
RYSTALLINE SILICA UARTZ * (CAS 808-60-7)	TWA	0.025 mg/m3	(Respirable fraction)
YPSUM (CALCIUM JLFATE, DIHYDRATE) AS 10101-41-4)	TWA	10 mg/m3	(Inhalable fraction)
S ACGIH Threshold Limit Values: Shor	rt Term Exposure Limit (STEL): mg/	m3	
omponents	Туре	Value	Form
DRIC ACID** (CAS 043-35-3)	STEL	6 mg/m3	Inhalable fraction.
S ACGIH Threshold Limit Values: Time	e Weighted Average (TWA): mg/m3,	non-standard units	}
omponents	Туре	Value	Form
DRIC ACID** (CAS 043-35-3)	TWA	2 mg/m3	Inhalable fraction.
S OSHA			
omponents	Туре	Value	Form
YPSUM (CALCIUM JLFATE, DIHYDRATE) AS 10101-41-4)	TWA	5 mg/m3	(Respirable fraction)
•		15 mg/m3	(Total dust)
AS 10101-41-4)		15 mg/m3	(To

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US OSHA Table Z-3: Caluculated Time Weighted Average (TWA) (mg/m3)						
Components	Туре	Value	Form			
CRYSTALLINE SILICA	TWA	10 mg/m3	Total dust.			

(QUARTZ)* (CAS 14808-60-7)

US OSHA Table Z-3: Caluculated Time Weighted Average (TWA) (Non-standard unit)

 Components
 Type
 Value
 Form

 CRYSTALLINE SILICA
 TWA
 3.3 mg/m3
 (Respirable fraction)

(QUARTZ)* (CAS 14808-60-7)

Exposure guidelines*Exposure limits for CRYSTALLINE SILICA - The US OSHA exposure limits 8 hour TWA for CRYSTALLINE SILICA (QUARTZ) are calculated from the following equations: 30/(%SiO2+2)

mg/m3 for total dust; and 10/(%SiO2+2) mg/m3 for the respirable fraction.

*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.

US ACGIH Threshold Limit Values: Short Term Exposure Limit (STEL): mg/m3

BORIC ACID** (CAS 10043-35-3)

US ACGIH Threshold Limit Values: Short Term Exposure Limit

(STEL): mg/m3

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 is recommended 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

Appearance Paper faced gypsum boards

Color Facing color varies

Form Solid
Odor Odorless
Odor threshold Not available.

pH 7

Melting point/Freezing point

Boiling point

Not applicable

Not applicable

Not applicable

Evaporation rate

Not available

Flammability

Not flammable

Flammability limits in air,

upper, % by volume

Flammability limits in air,

lower, % by volume

Not applicable

Vapor pressureNot applicableVapor densityNot applicable

Specific gravity 2.2 - 2.4

Partition coefficient

Not available.

(n-octanol/water)

Solubility (water) 0.2 % @ 22°C

Auto-ignition temperature 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 Acids.

Hazardous decomposition

products

May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological Information

Routes of exposure Skin contact. Eye contact. Inhalation.

Toxicological informationNo toxicological data available for this product. Toxicological information for components of this

product is listed below.

Toxicological information (Ingredients)

GYPSUM (CALCIUM SULFATE, DIHYDRATE) (CAS # 10101-41-4)

Toxicology Data - Selected LD50s and LC50s Oral LD50 Mouse: 5824 mg/kg

Oral LD50 Rat: 3000 mg/kg

BORIC ACID** (CAS # 10043-35-3)

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 2660 mg/kg

Dermal LD50 Rabbit: 2000 mg/kg Inhalation LC50 Rat: 0.16 mg/l/4h Oral LD50 Chicken: 2.95 g/kg Oral LD50 Dog: 2000 mg/kg Oral LD50 Mouse: 3450 mg/kg Inhalation LC50 Rat: 0.002 mg/l Dermal LD50 Rabbit: 2000 mg/kg Other LD50 Guinea pig: 1200 mg/kg Other LD50 Mouse: 1240 mg/kg Other LD50 Rat: 1330 mg/kg

SensitizationNot expected to be hazardous by OSHA/WHMIS criteria.Chronic effectsNot expected to be hazardous by OSHA/WHMIS criteria.CarcinogenicityNot 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) US ACGIH Threshold Limit Values: A2 carcinogen

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) IARC Monographs: Overall evaluation 1 Volume 68, Volume 100C

MutagenicityNot expected to be hazardous by OSHA/WHMIS criteria.Reproductive effectsNot expected to be hazardous by OSHA/WHMIS criteria.TeratogenicityNot expected to be hazardous by OSHA/WHMIS criteria.

Synergistic materials Not available.

12. Ecological Information

Ecotoxicity Not considered to be harmful to aquatic life.

Ecotoxicological data

Components Species Test Results

BORIC ACID** (CAS 10043-35-3)

Crustacea EC50 Daphnia 766.5 mg/L, 48 Hours

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Components Species Test Results

Aquatic

Fish LC50 Razorback sucker (Xyrauchen texanus) > 100 mg/l, 96 hours

GYPSUM (CALCIUM SULFATE, DIHYDRATE) (CAS 10101-41-4)

Fish LC50 Fish 2980 mg/l, 96 Hours

13. Disposal Considerations

Disposal instructionsUnder 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.

14. Transport Information

DOT

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No 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

Canadian regulations

Canada WHMIS Ingredient Disclosure: Threshold limits

BORIC ACID** (CAS 10043-35-3) 1 % CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) 1 %

WHMIS status Non-controlled

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

16. Other Information

Product list

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 Stretch54® Gypsum Board Water-Resistant Gypsum Board

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

Product list Product List B ToughRock® Gypsum Board Gypsum Veneer Plaster Base Panels Gypsum Wallboard Product List C MH Ceiling Board ToughRock® Span 24® Lite-Weight Ceiling Board Span24® Ceiling Board ToughRock® Stretch 54® Lite-Weight Gypsum Board Stretch54® Lite-Weight Gypsum Board ToughRock® Lite-Weight Gypsum Board Lite-Weight Gypsum Board ToughRock® Fireguard X™ Gypsum Board F-R "X" Gypsum Fire-Resistant Panels Toughrock® Fireguard 45 Gypsum Board Product List D ToughRock® Gypsum Sheathing ToughRock® MH Ceiling Board 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® Mold-Guard™ Lite-Weight Gypsum Board ComfortGuard® Sound-Deadening Gypsum Board ComfortGuard® IR Impact-Resistant Gypsum Board ComfortGuard® Mold-Resistant Gypsum Wallboard ComfortGuard® AR Abuse-Resistant Gypsum Board F-R "X" Stretch54® Gypsum Fire-Resistant Panels F-R "X" Gypsum Sheathing Panels Fire-Rated Structguard® Sheathing Fire-Rated Water-Resistant Gypsum Board **Gypsum Sheathing Panels** ToughRock® Fireguard X™ Veneer Plaster Board ToughRock® Fireguard X™ Soffit Board ToughRock® Fireguard X™ Abuse-Resistant Gypsum **Board** ToughRock® Fireguard X™ Mold-Guard™ Gypsum Board F-R "X" Gypsum Soffit Panels F-R "X" ComfortGuard® Mold-Resistant Gypsum Wallboard Gypsum Veneer Plaster Base Panels Product List E ToughRock® Shaftliner

ToughRock® Fireguard C® Soffit Board

Silentguard® Shaftliner

Product list

ToughRock® Fireguard C® Stretch 54® Gypsum Board ToughRock® Lite-Weight Fire-Rated Gypsum Board F-R TG "C" Gypsum Fire-Resistant Panels

F-R "C" Gypsum Soffit Panels

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Product List F

ToughRock® Fireguard C® Gypsum Board

HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 0 Instability: 0

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.

Prepared by Georgia-Pacific LLC

404.652.5119

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