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

Components		CAS #	Percent/Wt
GYPSUM (CALCIUM SULFATE, DIHYDRATE)		10101-41-4	60 - 100
VERMICULITE (NON-ASBEST	OS CONTAINING)****	1318-00-9	1 - 3
BORIC ACID**		10043-35-3	0.1 - 1
CONTINUOUS FILAMENT GL	ASS FIBERS***	65997-17-3	0.1 - 1
CRYSTALLINE SILICA (QUAR	TZ)*	14808-60-7	1 - 5
Composition comments	 ** Found in products in List B, C and F, *** Found in products in List C, D, E and **** Found in products in List E and F, S Gypsum (calcium sulfate, dihydrate) cor listed as a lung carcinogen. See Section *The weight percent for crystalline silica fraction. Testing conducted by Georgia- activities associated with the normal use conducted to determine actual exposure 	I F, Section 16 of this M Section 16 of this MSDS Intains naturally occurrin n 8 for exposure information represents total crystal Pacific did not detect re e of this product; howev	SDS. g silica crystalline (quartz), which ation. line silica and not the respirable spirable crystalline silica during er, jobsite air monitoring should b
4. First Aid Measures			
First aid procedures			
Eye contact	Immediately flush eyes with plenty of wa irritation develops or persists.	ater for at least 15 minut	tes. Get medical attention if
Skin contact	For skin contact, wash immediately with or persists.	soap and water. Get m	edical attention if irritation develo
Inhalation	Remove to fresh air. If symptoms persis	t, obtain medical attenti	on.
Ingestion	May result in obstruction and irritation if ingested. Get medical attention.		attention.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA/WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire fighting equipment/instructions	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 Mea	asures
Personal precautions	Use personal protection recommended in Section 8. Keep unnecessary personnel away from the

r ersonal precautions	release.
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.
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

Occupational exposure limits

ACGIH			
Components	Туре	Value	Form
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m3	(Respirable fraction)
GYPSUM (ĆALCIUM SULFATE, DIHYDRATE) (CAS 10101-41-4)	TWA	10 mg/m3	(Inhalable fraction)
US ACGIH Threshold Limit Value	es: Short Term Exposure Limit	(STEL): mg/m3	
Components	Туре	Value	Form
BORIC ACID** (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
US ACGIH Threshold Limit Value	es: Time Weighted Average (TV	/A): mg/m3, non-standard unit	S
Components	Туре	Value	Form
BORIC ACID** (CAS 10043-35-3)	TWA	2 mg/m3	Inhalable fraction.
U.S OSHA			
Components	Туре	Value	Form
GYPSUM (CALCIUM SULFATE, DIHYDRATE) (CAS 10101-41-4)	TWA	5 mg/m3	(Respirable fraction)
		15 mg/m3	(Total dust)

Components	Туре	Value	Form	
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	10 mg/m3	Total dust.	
Components	lated Time Weighted Average (TW Type	A) (Non-standard unit) Value	Form	
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	3.3 mg/m3	(Respirable fraction)	
xposure guidelines	*Exposure limits for CRYSTALLINI CRYSTALLINE SILICA (QUARTZ) mg/m3 for total dust; and 10/(%SiC) are calculated from the following	g equations: 30/(%SiO2+2)	
	*The weight percent for crystalline fraction. Testing conducted by Geo activities associated with the norm conducted to determine actual exp	orgia-Pacific did not detect respira al use of this product; however, jo	able crystalline silica during obsite air monitoring should b	
US ACGIH Threshold Limit	/alues: Short Term Exposure Limi	t (STEL): mg/m3		
BORIC ACID** (CAS 100		ACGIH Threshold Limit Values: TEL): mg/m3	Short Term Exposure Limit	
ngineering controls	Score and snap method recomment ventilation to keep airborne dust con appropriate, to reduce the generation	oncentrations below exposure lim		
ersonal 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 CF 1910.151 (c)).			
Respiratory protection	A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas when permissible exposure limits may be exceeded. Respirators should be selected by and us 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

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Appearance	Paper faced gypsum boards
Color	Facing color varies
Form	Solid
Odor	Odorless
Odor threshold	Not available.
рН	7
Melting point/Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	Not available
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

Partition coefficient (n-octanol/water)	Not available.
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 exposureSkin 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 SULF	•	E) (CAS # 10101-41-4)	
Toxicology Data - Selected LD50s and LC50s			Oral LD50 Mouse: 5824 mg/kg
	(0.05.0)		Oral LD50 Rat: 3000 mg/kg
BORIC ACID** (CAS # 100 Toxicology Data - Selected			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
Sensitization	Not exper	cted to be hazardous	by OSHA/WHMIS criteria.
Chronic effects	•		by OSHA/WHMIS criteria.
Carcinogenicity	•		by OSHA/WHMIS criteria.
	sources is crystalline While the dust, the	s listed by IARC and I e silica has been know re may be a factor of risk of contracting silio	ne silica in the form of quartz or cristobalite from occupational NTP as a lung carcinogen. Prolonged exposure to respirable what to cause silicosis, a lung disease, which may be disabling. individual susceptibility to a given exposure to a respirable silicosis and the severity of the disease is clearly related to the e silica exposure and the length of time (usually years) of exposure
ACGIH Carcinogens			
CRYSTALLINE SILI IARC Monographs. Ove	. , ,	· /	US ACGIH Threshold Limit Values: A2 carcinogen
CRYSTALLINE SILI	CA (QUARTZ)* ((CAS 14808-60-7)	IARC Monographs: Overall evaluation 1 Volume 68, Volume 1
Mutagenicity	Not expect	cted to be hazardous	by OSHA/WHMIS criteria.
Reproductive effects	Not exped	cted to be hazardous	by OSHA/WHMIS criteria.
Teratogenicity	Not expect	cted to be hazardous	by OSHA/WHMIS criteria.
Synergistic materials	Not availa	able.	
12. Ecological Informa	tion		
Ecotoxicity	Not consi	dered to be harmful to	aquatic life.
Ecotoxicological data Components		Species	Test Results
BORIC ACID** (CAS 10043-3	35-3)		
Crustacea	EC50	Daphnia	766.5 mg/L, 48 Hours

Components		Species	Test Results
Aquatic			N /
Fish	LC50	Razorback sucker (Xyrauchen texan	us) > 100 mg/l, 96 hours
GYPSUM (CALCIUM SULFATE, I			
Fish	LC50	Fish	2980 mg/l, 96 Hours
13. Disposal Consideratio	ons		
Disposal instructions		it is the responsibility of the user of th roduct meets RCRA criteria for hazard	e product to determine, at the time of disposa lous waste.
14. Transport Information			
DOT			
Not regulated as dangerous good	S.		
TDG			
Not regulated as dangerous good	S.		
15. Regulatory Informatio	n		
Superfund Amendments and Re	eauthorization A	Act of 1986 (SARA)	
Hazard categories	Immediate Ha Delayed Haza Fire Hazard - Pressure Haz Reactivity Haz	ard - No No ard - No	
Section 302 extremely hazardous substance	No		
Section 311 hazardous chemical	Yes		
Section 313 hazardous chemical	No		
Canadian regulations			
Canada WHMIS Ingredient I BORIC ACID** (CAS 100	043-35-3)	1 %	
CRYSTALLINE SILICA (WHMIS status	Non-controlled	·	
Inventory status			
Country(s) or region	Inventory na	me	On inventory (yes/no
Canada	-	ostances List (DSL)	Yeshing (yeshing
Canada		Substances List (NDSL)	٨
United States & Puerto Rico *A "Yes" indicates that all compo	Toxic Substar	nces Control Act (TSCA) Inventory act comply with the inventory requirements	Yo administered by the governing country(s)
16. Other Information			
Product list Product List A			
ToughRock® Veneer Plaster	Base (Blueboard	(h	
ToughRock® Flexroc® Gypsi		~)	
ToughRock® Mold-Guard™ (
ToughRock® Basement Boar	• •	ard	
ToughRock® Sound Deadeni	• •		
ToughRock® Stretch 54® Gy			
ToughRock® SOFFIT Board	-		
Stretch54® Gypsum Board			
•	ard		

Product list

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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® Firequard 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 Silentguard® Shaftliner

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ToughRock® Fireguard C® Soffit Board

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

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.
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