SAFETY DATA SHEET



1. Identification

Product identifier FireDefender® Blue Banded Core

Other means of identification None.

Not available. Recommended use

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

Company name Georgia-Pacific Gypsum LLC **Address** 133 Peachtree Street, NE

Atlanta, GA 30303

Technical Information 800.225.6119 **Telephone**

(M)SDS Request 404.652.5119

E-mail MSDSREQ@GAPAC.COM

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 Skin irritation Category 2

> Eye irritation Category 2A Carcinogenicity Category 1A

Category 3 respiratory tract irritation Specific target organ toxicity, single exposure

Specific target organ toxicity, repeated

Category 1 (lung)

exposure

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word

Hazard statement Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause

cancer. Causes damage to organs (lung) through prolonged or repeated exposure.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have been read Prevention

and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for Response

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned:

Get medical advice/attention. Specific treatment (see section 4 on the SDS).

Store away from incompatible materials (see Section 10 of the SDS). **Storage**

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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	%
PERLITE		93763-70-3	40 - 70
SODIUM SILICATE		1344-09-8	3 - < 11
SUCROSE		57-50-1	1 - < 2
CELLULOSE		9004-34-6	0.5 - < 2
CALCIUM SULFATE DIHYDRATE		10101-41-4	10 - 30
DIATOMACEOUS EARTH	DIATOMACEOUS EARTH	68855-54-9	< 8
CRYSTALLINE SILICA (QUARTZ)		14808-60-7	< 7
SILICA, CRISTOBALITE		14464-46-1	< 6

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

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
Fire fighting

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

equipment/instructions
Specific methods

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

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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. 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

US OSHA Table Z-3: Calculated Time Weighted Average (TWA) (mg/m3)

Occupational exposure limits

Components	Туре	(mg/m3) Value		
DIATOMACEOUS EARTH (CAS 68855-54-9)	TWA	1.1 mg/m3	1.1 mg/m3	
US OSHA Table Z-3: Time Weighte			-	
Components	Туре	Value	Form	
PERLITE (CAS 93763-70-3)	TWA	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
US. OSHA Table Z-1 Limits for Air			F	
Components	Туре	Value	Form	
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
CELLULOSE (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	PEL	0.05 mg/m3		
SILICA, CRISTOBALITE	PEL	0.05 mg/m3		
(CAS 14464-46-1)		3		
SUCROSE (CAS 57-50-1)	PEL	5 mg/m3	Respirable fraction.	
		15 mg/m3	Total dust.	
ACGIH				
Components	Туре	Value	Form	
PERLITE (CAS 93763-70-3)	TWA	3 mg/m3	Respirable particles.	
US ACGIH Threshold Limit Values		-		
Components	Туре	Value	Form	
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m3	Inhalable fraction.	
CELLULOSE (CAS 9004-34-6)	TWA	10 mg/m3		
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
PERLITE (CAS 93763-70-3)	TWA	10 mg/m3	Inhalable particles.	
SILICA, CRÍSTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.	
SUCROSE (CAS 57-50-1)	TWA	10 mg/m3		

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US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Form					
Components	Туре	value	1 01111		
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	5 mg/m3	Respirable.		
•		10 mg/m3	Total		
CELLULOSE (CAS 9004-34-6)	TWA	5 mg/m3	Respirable.		
,		10 mg/m3	Total		
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.		
DIATOMACEOUS EARTH (CAS 68855-54-9)	TWA	6 mg/m3			
PERLITE (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.		
•		10 mg/m3	Total		
SUCROSE (CAS 57-50-1)	TWA	5 mg/m3	Respirable.		

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

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica **Exposure guidelines**

should be monitored and controlled.

Appropriate engineering

When sawing, sanding, drilling, or routing this product, provide local and general exhaust controls

ventilation to keep airborne dust concentrations below exposure limits.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Ensure compliance with OSHA's PPE standard Eye/face protection

(29 CFR 1910.132 and .133) for eye and face protection. Provide an emergency eye wash fountain

10 mg/m3

Total

and quick drench shower in the immediate work area.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Other

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)).

A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or Respiratory protection

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

Always observe good personal hygiene measures, such as washing after handling the material

(Z88.2).

Thermal hazards Not applicable.

General hygiene

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective considerations

equipment to remove contaminants. Keep away from food and drink.

9. Physical and chemical properties

Composite core door panel **Appearance**

Solid. Physical state Solid. **Form** Blue Color Odorless Odor Not available. Odor threshold

Melting point/freezing point 2777.58 °F (1525.32 °C) estimated

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point Not available. **Evaporation rate** 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 pressureNot applicable.Vapor densityNot applicable.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperatureNot available.ViscosityNot applicable.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Acids.

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

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 May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Causes serious 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

Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Discomfort in the chest. Shortness of

breath. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Components Species Test Results

CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)

Acute Oral

LD50 Rat > 1581 mg/kg

DIATOMACEOUS EARTH (CAS 68855-54-9)

Acute Oral

LD50 Mouse > 15000 mg/kg

Rat > 22500 mg/kg

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Components Species Test Results

SODIUM SILICATE (CAS 1344-09-8)

Acute Dermal

LD50 Rabbit 4640.0001 mg/kg

Oral

LD50 Mouse 1100 mg/kg

Rat 1153 mg/kg

1.1 g/kg

SUCROSE (CAS 57-50-1)

Acute Oral

LD50 Rat 29700 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity 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.

DIATOMACEOUS EARTH (CAS 68855-54-9) 3 Not classifiable as to carcinogenicity to humans.

SILICA, CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

DIATOMACEOUS EARTH (CAS 68855-54-9)

Known To Be Human Carcinogen.

Known To Be Human Carcinogen.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (lung) through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)

Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

Components Species Test Results

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

Aquatic

Acute

Fish LC50 Zebra danio (Danio rerio) > 10000 mg/l, 96 Hours OECD SIDS

SODIUM SILICATE (CAS 1344-09-8)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 1800 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

SUCROSE -3.7

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 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. 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.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulationsThis 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.

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

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SARA 311/312 Hazardous Yes

chemical

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

Not regulated.

(SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

SILICA, CRISTOBALITE (CAS 14464-46-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CRYSTALLINE SILICA (QUARTZ) (CAS Listed: October 1, 1988

14808-60-7)

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, including date of preparation or last revision

Issue date May-20-2015 May-21-2017 **Revision date**

Version # 02

Health: 2* **HMIS®** ratings

> Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

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

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