SAFETY DATA SHEET



1. Identification

Product identifier FireDefender® Universal Banded Core FS II Wood

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

Telephone **Technical Information** 800.225.6119

(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

> Serious eye damage Category 1 Sensitization, respiratory Category 1 Sensitization, skin Category 1 Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1 (lung)

exposure

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

Label elements



Signal word Danger

Hazard statement Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May

cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. Contaminated work clothing must

not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If inhaled: If breathing is difficult, remove person to fresh air

and keep comfortable for breathing. Specific treatment (see section 4 on the SDS).

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

Dispose of contents/container in accordance with applicable regulations. Disposal

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	< 90
CELLULOSE		9004-34-6	7 - < 12
PERLITE		93763-70-3	6 - < 7
PORTLAND CEMENT		65997-15-1	3 - < 7
WOOD/WOOD DUST		Not Assigned	2 - < 4
CONTINUOUS FILAMENT GLASS FIBERS		65997-17-3	1 - < 2
CRYSTALLINE SILICA (QUARTZ)		14808-60-7	0.9 - < 6
VERMICULITE		1318-00-9	0.8 - < 2
IRON OXIDE		1309-37-1	< 2

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

4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a

POISON CENTER or doctor/physician.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and delayed

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Discomfort in the chest. Difficulty in breathing. Shortness of breath. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic

effects.

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

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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

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

environment. None known.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

During fire, gases hazardous to health may be formed.

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.

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

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.

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

UC OCUA Table 7.2. Time Mainhtad Avenue (TMA) (mar/m2)

Occupational exposure limits

US OSHA Table Z-3: Time Weighte Components	Type	Value	Form
PERLITE (CAS 93763-70-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
'ERMICULITE (CAS 318-00-9)	TWA	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
IS. OSHA Table Z-1 Limits for Air	Contaminants (29 CFR 1910.1	1000)	
Components	Туре	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 0101-41-4)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
ELLULOSE (CAS 004-34-6)	PEL	5 mg/m3	Respirable fraction.
· · · · · · · · · · · · · · · · · · ·		15 mg/m3	Total dust.
CRYSTALLINE SILICA QUARTZ) (CAS 4808-60-7)	PEL	0.05 mg/m3	
4808-80-7) RON OXIDE (CAS 309-37-1)	PEL	10 mg/m3	Fume.
ORTLAND CEMENT (CAS 5997-15-1)	PEL	5 mg/m3	Respirable fraction.
00007 10 1)		15 mg/m3	Total dust.
CGIH			
components	Туре	Value	Form
CONTINUOUS FILAMENT GLASS FIBERS (CAS 5997-17-3)	TWA	5 mg/m3	Inhalable fraction.
PERLITE (CAS 13763-70-3)	TWA	3 mg/m3	Respirable particles.
VOOD/WOOD DUST	TWA	1 mg/m3	Inhalable fraction.
S ACGIH Threshold Limit Values	: Time Weighted Average (TW	/A): mg/m3, non-standard unit	s
omponents	Туре	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m3	Inhalable fraction.

Components	Туре	Value	Form
CELLULOSE (CAS 9004-34-6)	TWA	10 mg/m3	
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.
IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
PERLITE (CAS 93763-70-3)	TWA	10 mg/m3	Inhalable particles.
PORTLAND CEMENT (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type	Value	Form
CALCIUM SULFATE	TWA	5 mg/m3	Respirable.
DIHYDRATE (CAS 10101-41-4)		, and the second	·
		10 mg/m3	Total
CELLULOSE (CAS 9004-34-6)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
CONTINUOUS FILAMENT GLASS FIBERS (CAS 65997-17-3)	TWA	5 mg/m3	Fiber, total
CRYSTALLINE SILICA (QUARTZ) (CAS	TWA	0.05 mg/m3	Respirable dust.
14808-60-7) IRON OXIDE (CAS 1309-37-1)	TWA	5 mg/m3	Dust and fume.
PERLITE (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total
PORTLAND CEMENT (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
MOOD MOOD DUCT	T)A/A	10 mg/m3	Total
WOOD/WOOD DUST	TWA	1 mg/m3	Dust.
ogical limit values	No biological exposure limits noted for	• ()	
osure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
ropriate engineering trols	When sawing, sanding, drilling, or ro ventilation to keep airborne dust con		
vidual protection measures,	such as personal protective equipm	nent	
Eye/face protection	Wear safety glasses with side shield (29 CFR 1910.132 and .133) for eye and quick drench shower in the immediate	and face protection. Provide an	
Skin protection	For prolonged or repeated skin conta	act use suitable protective alove	2
Hand protection			
Other	Impervious protective clothing and gi Ensure compliance with OSHA's PP protection)). Safety shower/eye was 1910.151 (c)).	E standards (29 CFR 1910.132)	(general) and 138 (hand

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

Thermal hazards Not applicable.

(Z88.2).

Respiratory protection

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

Composite core door panel **Appearance**

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

7 - 9 Ηq

Melting point/freezing point 2642 °F (1450 °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 pressure Not applicable. Vapor density Not applicable. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable. Not available. **Decomposition temperature Viscosity** Not applicable.

Other information

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

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces Conditions to avoid

with compressed air).

Incompatible materials Acids.

Hazardous decomposition

products

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

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11. Toxicological information

Information on likely routes of exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation Inhalation

may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Causes serious eye damage. Eye contact

Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing. Discomfort in the chest. Difficulty in breathing. Shortness of breath. Skin irritation. May cause redness and pain.

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Components **Species Test Results**

CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)

Acute Oral

LD50 Rat > 1581 mg/kg

IRON OXIDE (CAS 1309-37-1)

Acute Oral

LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eve damage/eve

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

No 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.

Wood dust generated from sawing, sanding or machining this product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC), and National Toxicology Program (NTP) classifies wood dust as a carcinogen. This classification is based on the increased occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation noted insufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon, or rectum with exposure to wood dust.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7) 1 Carcinogenic to humans.

IRON OXIDE (CAS 1309-37-1) 3 Not classifiable as to carcinogenicity to humans.

WOOD/WOOD DUST (CAS Not Assigned) 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) Known To Be Human Carcinogen. WOOD/WOOD DUST (CAS Not Assigned) Known To Be Human Carcinogen.

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

Specific target organ toxicity -Not classified.

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single exposure

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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

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

Aquatic

Acute

Fish

LC50 Zebra danio (Danio rerio)

> 10000 mg/l, 96 Hours OECD SIDS

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential Mobility in soil No data available.

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

Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

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.

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.

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)

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)

WOOD/WOOD DUST (CAS Not Assigned) Listed: December 18, 2009

International Inventories

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

*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-29-2017

Version # 01

HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1 Instability: 0

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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.