



SAFETY DATA SHEET

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

ISSUE DATE: 10-19-21

REVIEWED ON: 10-19-21

1. IDENTIFICATION

PRODUCT IDENTIFIER

Trade Name: WARM SPRINGS™ 412 Fire Door Core

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Product Description: This Mineral Core is pink in color and manufactured in our plant in Warm Springs Oregon. The mineral core product is used in the construction of fire rated doors and is rated up to 90 minutes to the US Standards, and 120 minutes to the British Standard.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer/Supplier:

Warm Springs Composite Products
 3270 U.S. Hwy. 26 Bldg. #8
 P.O. Box 906
 Warm Springs, OR 97761
 1-541-553-1143 | wscp.com

🚨 **Emergency telephone number:** 1-541-553-1143

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE



Health hazard



Carc. 1A H350 May cause cancer.

STOT SE 3 H335 May cause respiratory irritation.

Additional information: Hazards exempt when in solid form or when it cannot be released due to cutting, grinding, heating, etc. This product does not contain Asbestos, Volatile Organic Chemicals (VOC's) or Formaldehyde.

LABEL ELEMENTS

Hazard pictograms:



Signal word: Danger

Hazard-determining components of labeling:

Calcium Silicate Filler
 Quartz (SiO₂)
 Starch
 Silicon Dioxide

Hazard statements:

H350 May cause cancer.
 H335 May cause respiratory irritation.

Precautionary statements:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.



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Precautionary statements:

- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity: This value refers to knowledge of known, established toxicological or ecotoxicological values. 60.4% of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS ratings (scale 0 - 4)



Health = *0
Fire = 0
Physical Hazzard = 0

Hazard(s) not otherwise classified (HNOC): None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substance

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 65997-17-3	Fiber Glass	25-50%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 93763-70-3	Perlite	25-50%
RTECS: SDS5254000		
CAS: 13983-17-0	Calcium Silicate Filler	15-35%
	⚠ STOT SE 3, H335	
CAS: 9005-25-8	Starch	2-12%
	⚠ STOT SE 3, H335; Combustible Dust	
CAS: 7631-86-9	Silicon Dioxide	2-12%
	⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	
CAS: 14808-60-7	Quartz (SiO2)	<.23%
RTECS: VV 7330000	⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	

Additional information: The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

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4. FIRST-AID MEASURES**DESCRIPTION OF FIRST AID MEASURES****General information:** If symptoms persist, call a physician.**After inhalation:** Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in the side position for transportation.**After skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.**After eye contact:** Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.**After swallowing:** If swallowed and symptoms occur, consult a doctor.**INFORMATION FOR DOCTOR****Most important symptoms and effects, both acute and delayed:****Quartz:** Can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable quartz excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.**5. FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**For safety reasons unsuitable extinguishing agents:** No further relevant information.**Special hazards arising from the substance or mixture:** No further relevant information available.**ADVICE FOR FIREFIGHTERS****Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures:** Not required.**Environmental precautions:** No special measures required.**Methods and material for containment and cleaning up:**

Contain spill and collect, as appropriate.

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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PAC-1:

65997-17-3	Fiber Glass	15 mg/m ³
93763-70-3	Perlite	15 mg/m ³
7631-86-9	Silicon Dioxide	18 mg/m ³
1309-37-1	Iron Oxide (Brown & Black)	15 mg/m ³
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

PAC-2:

65997-17-3	Fiber Glass	170 mg/m ³
93763-70-3	Perlite	230 mg/m ³
7631-86-9	Silicon Dioxide	740 mg/m ³
1309-37-1	Iron Oxide (Brown & Black)	360 mg/m ³
14808-60-7	Quartz (SiO ₂)	33 mg/m ³

PAC-3:

65997-17-3	Fiber Glass	990 mg/m ³
93763-70-3	Perlite	1,400 mg/m ³
7631-86-9	Silicon Dioxide	4,500 mg/m ³
1309-37-1	Iron Oxide (Brown & Black)	2,200 mg/m ³
14808-60-7	Quartz (SiO ₂)	200 mg/m ³

7. HANDLING AND STORAGE

HANDLING

Precautions for safe handling: Avoid creating and breathing dust/fume/gas/mist/vapors/spray.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

STORAGE

Requirements to be met by storerooms and receptacles:

Storage Temperature Range: 0-45° C

Storage Humidity Range: 20-80% Keep Dry.

Information about storage in one common storage facility: Store horizontally on even surfaces supporting the entire panel.

Further information about storage conditions:

Store in cool, dry conditions.

Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

Components with 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 remaining constituents have no known exposure limits.



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93763-70-3 Perlite

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

13983-17-0 Calcium Silicate Filler

ACGIH TLV	Short-term value: 3 mg/m ³ Long-term value: 10 mg/m ³
OSHA PEL	Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³

9005-25-8 Starch

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 10 mg/m ³ A4

7631-86-9 Silicon Dioxide

ACGH	Short-term value: 3 mg/m ³ Long-term value: 10 mg/m ³
IDLH	Short-term value: 3000 mg/m ³ Long-term value: 4 mg/m ³ IDLH: Immediately dangerous to life or health
TWA	Short-term value: 6 mg/m ³ Long-term value: 4 mg/m ³

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *respirable particulate matter, A2

Additional information: The lists that were valid during the creation of this SDS were used as basis.

EXPOSURE CONTROLS

Personal protective equipment

General protective and hygienic measures: 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.

Breathing equipment:



A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or where dust extraction cannot maintain permissible exposure limits.



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Protection of hands:



Protective gloves

For prolonged or repeated skin contact use suitable protective gloves. Impervious protective clothing and gloves recommended to prevent drying or irritation of skin

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Wear safety glasses with side shields (or goggles). Ensure compliance with OSHA's PPE standards for eye and face protection. Provide an emergency eye wash fountain in the immediate work area.

Limitation and supervision of exposure into the environment: None

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Form: Solid
Color: Pink

Odor: Low

Odor threshold: Not determined.

pH-value @ 20 °C (68 °F): 7

Change in condition

Melting point/Melting range: Not determined.

Flash point: None

Flammability (solid, gaseous): Not determined.

Ignition temperature: Not applicable

Decomposition temperature: 1204° C

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapor pressure: Not applicable.

Density: 1.12–1.37 kg/m3 (18–22 lbs./cu. ft.)

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.



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Solubility in / Miscibility with:

Water:	Fully miscible. Soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
VOC content:	0.00%
Solids content:	100.0%
Other information:	No further relevant information available.

10. STABILITY AND REACTIVITY

- Reactivity:** No further relevant information available.
- Chemical stability:** Product is stable under normal conditions.
- Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions:** No dangerous reactions known.
- Conditions to avoid:** No further relevant information available.
- Incompatible materials:** No further relevant information available.
- Hazardous decomposition products:** No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

Acute toxicity:

LD/LC50 values that are relevant for classification:

7631-86-9 Silicon Dioxide

Oral	LD50	10,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50/4 h	>140->2,000 mg/l (Rat) (OCED 403)
		Maximum attainable concentration, mortality does not appear.
		10,000 mg/l (Zebra fish) (OECD 203)

14808-60-7 Quartz (SiO2)

Oral	LD50	>22,500 mg/kg (Rat) mg/kg (Rabbit)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant



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CARCINOGENIC CATEGORIES

IARC (International Agency for Research on Cancer): "In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"

- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans

65997-17-3	Fiber Glass	65997-17-3
13983-17-0	Calcium Silicate Filler	3
7631-86-9	Silicon Dioxide	3
1309-37-1	Iron Oxide (Brown & Black)	3
14808-60-7	Quartz (SiO2)	1

NTP (National Toxicology Program): K - Known to be a human carcinogen
 14808-60-7 Quartz (SiO2) K

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12. ECOLOGICAL INFORMATION

TOXICITY

Aquatic toxicity:

7631-86-9 Silicon Dioxide

EC50 >1,000 mg/l (Daphnia) (OECD 202)

14808-60-7 Quartz (SiO2)

EC50 218 mg/l (Green algae)

Persistence and degradability: No further relevant information available.

BEHAVIOR IN ENVIRONMENTAL SYSTEMS

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

ADDITIONAL ECOLOGICAL INFORMATION

General notes: Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.



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13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number:

DOT, ADR/ADN, IMDG, IATA

UN proper shipping name: Non-Regulated Material

DOT, ADR/ADN, IMDG, IATA

Transport hazard class(es): Non-Regulated Material

DOT, ADR/ADN, ADN, IMDG, IATA

Class: Non-Regulated Material

Packing group:

DOT, ADR/ADN, IMDG, IATA

Non-Regulated Material

Environmental hazards:

Not applicable.

Special precautions for user:

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

UN "Model Regulation":

Non-Regulated Material

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

SARA (Superfund Amendments and Reauthorization):

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (Specific toxic chemical listings): None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

65997-17-3	Fiber Glass	ACTIVE
9005-25-8	Starch	ACTIVE
7631-86-9	Silicon Dioxide	ACTIVE
1309-37-1	Iron Oxide (Brown & Black)	ACTIVE
14808-60-7	Quartz (SiO2)	ACTIVE

Hazardous Air Pollutants

None of the ingredients are listed.

California Proposition 65:



WARNING: This product can expose you to chemicals including [one or more listed chemical] which is [are]known to the State of California to cause cancer [or birth defects or other reproductive harm]. For more information, go to www.P65Warnings.ca.gov.



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Chemicals known to cause cancer:

14808-60-7 Quartz (SiO₂)

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

New Jersey Right-to-Know List:

93763-70-3 Perlite

1309-37-1 Iron Oxide (Brown & Black)

14808-60-7 Quartz (SiO₂)

New Jersey Special Hazardous Substance List:

14808-60-7 Quartz (SiO₂) CA

Pennsylvania Right-to-Know List:

9005-25-8 Starch

7631-86-9 Silicon Dioxide

1309-37-1 Iron Oxide (Brown & Black)

14808-60-7 Quartz (SiO₂)

Pennsylvania Special Hazardous Substance List: None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

93763-70-3 Perlite A4

9005-25-8 Starch A4

1309-37-1 Iron Oxide (Brown & Black) A4

14808-60-7 Quartz (SiO₂) A2

NIOSH-Ca (National Institute for Occupational Safety and Health):

14808-60-7 Quartz (SiO₂)

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



Signal word: Danger

Hazard-determining components of labeling:

Calcium Silicate Filler

Quartz (SiO₂)

Starch

Silicon Dioxide

Hazard statements:

H350 May cause cancer.

H335 May cause respiratory irritation.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations: The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Contact:

Date of last revision / revision number: 10-19-2021 / 5

Abbreviations and acronyms:

ADR:	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN:	The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
NIOSH:	National Institute for Occupational Safety and Health
OSHA:	Occupational Safety & Health Administration
TLV:	Threshold Limit Value
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Acute Tox. 4:	Acute toxicity – Category 4
Skin Irrit. 2:	Skin corrosion/irritation – Category 2
Eye Irrit. 2A:	Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B:	Serious eye damage/eye irritation – Category 2B
Carc. 1A:	Carcinogenicity – Category 1A
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
STOT RE 1:	Specific target organ toxicity (repeated exposure) – Category 1

***Data compared to the previous version altered.**

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