



SAFETY DATA SHEET

Page 1/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

PRINTING DATE: 11.08.2022

VERSION NUMBER: 5

REVISION: 11.08.2022

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER:

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

REACH Registration number: Not relevant.

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

Product category: No further relevant information available.

Application of the substance / the mixture: This Mineral Core is gray/brown in color and a proprietary product of Warm Springs Composite Products used in the construction of fire rated doors, mainly for 45 & 60 min applications, but also carries limited certifications at 90 minutes to the US Standards.

1.3 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

1.4 EMERGENCY TELEPHONE NUMBER: 1-541-553-1143

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification according to Regulation (EC) No 1272/2008



GHS08 Health hazard.

STOT RE 2 H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



GHS07

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.

2.2 LABEL ELEMENTS:

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS07



GHS08

Signal word: Warning

Hazard-determining components of labeling:

Starch

Quartz (SiO2)

Hazard statements:

H335 May cause respiratory irritation.

H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

(CONTINUED ON PAGE 2)

**SAFETY DATA SHEET**

Page 2/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

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Precautionary statements:

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or in a well-ventilated area.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P314 Get medical advice/attention 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.

Additional information: This value refers to knowledge of known, established toxicological or ecotoxicological values.

67% of the mixture consists of component(s) of unknown toxicity.

Contains 86% of components with unknown hazards to the aquatic environment.

- **2.3 OTHER HAZARDS:** None known

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **3.1 CHEMICAL CHARACTERISATION: MIXTURES**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

CAS: 1332-58-7	Kaolin	<20%
	⚠ Acute Tox. 4, H332	
CAS: 9005-25-8	Starch	<20%
EINECS: 232-679-6	⚠ STOT SE 3, H335	
CAS: 14808-60-7	Quartz (SiO ₂)	≤2%
EINECS: 238-878-4	⚠ STOT RE 1, H372; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
RTECS: VV 7330000		

Additional information: Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in the product is ≤2%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.

Raw materials and/or coatings in this product contain small amounts of titanium dioxide, which has been classified as possibly carcinogenic to humans by the International Agency for Research on Cancer (IARC). However, per IARC “no significant exposure to primary particles of titanium dioxide is thought to occur during the use of product in which titanium dioxide is bound to other materials, such as in paints”

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

- **4.1 DESCRIPTION OF FIRST AID MEASURES**

General information: If symptoms persist, call a physician.

After inhalation: Dust produced by cutting, sanding, grinding or if dust is produced by any other operation may irritate respiratory tract. Supply fresh air; consult doctor in case of complaints.

(CONTINUED ON PAGE 3)



SAFETY DATA SHEET

Page 3/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

PRINTING DATE: 11.08.2022

VERSION NUMBER: 5

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Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

After skin contact: Wash with soap and water.

Generally, the product does not irritate the skin.

If skin irritation occurs, consult a doctor.

After eye contact: If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

After swallowing: If swallowed and symptoms occur, consult a doctor.

• 4.2 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.

Kaolin: Prolonged inhalation of excessive levels of kaolin may cause a benign pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of long-term exposure to extremely high levels of dust, progressive fibrosis may occur with lung function impairment.

• 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

• 5.1 EXTINGUISHING MEDIA

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: No further relevant information.

• 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: No further relevant information available.

• 5.3 ADVICE FOR FIREFIGHTERS

Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

• 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Not required.

• 6.2 ENVIRONMENTAL PRECAUTIONS: No special measures required.

• 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated materials as waste according to section 13.

Ensure adequate ventilation.

Dispose of the material collected according to regulations.

• 6.4 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.

SECTION 7. HANDLING AND STORAGE

• 7.1 PRECAUTIONS FOR SAFE HANDLING

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

(CONTINUED ON PAGE 4)



SAFETY DATA SHEET

Page 4/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

PRINTING DATE: 11.08.2022

VERSION NUMBER: 5

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

• **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

STORAGE

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

• **7.3 SPECIFIC END USE(S):** No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

• **8.1 CONTROL PARAMETERS**

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

93763-70-3 Perlite

VL (Belgium)	Long-term value: 10 mg/m ³
TWA (Italy)	Long-term value: (10) mg/m ³ (A4 (e))

1332-58-7 Kaolin

VL (Belgium)	Long-term value: 2 mg/m ³ fraction alvéolaire
WEL (Great Britain)	Long-term value: 2 mg/m ³
TWA (Italy)	Long-term value: 2 mg/m ³ A4 (e, j)
OEL (Ireland)	Long-term value: 2 mg/m ³

9004-34-6 Cellulose

VL (Belgium)	Long-term value: 10 mg/m ³
VLEP (France)	Long-term value: 10 mg/m ³
WEL (Great Britain)	Short-term value: 20* mg/m ³ Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable
TWA (Italy)	Long-term value: 10 mg/m ³
OEL (Ireland)	Long-term value: 10 mg/m ³

9005-25-8 Starch

VL (Belgium)	Long-term value: 10 mg/m ³
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable
TWA (Italy)	Long-term value: 10 mg/m ³ A4
OEL (Ireland)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable dust

(CONTINUED ON PAGE 5)



SAFETY DATA SHEET

Page 5/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

PRINTING DATE: 11.08.2022

VERSION NUMBER: 5

REVISION: 11.08.2022

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

14808-60-7 Quartz (SiO₂)

BOELV (EU)	Long-term value: 0.1 * mg/m ³ *respirable fraction
MAK (Austria)	Long-term value: 0.05 A mg/m ³ siehe Anhang III C
VL (Belgium)	Long-term value: 0.1 mg/m ³ C;poussières alvéolaires
MAK (Germany)	alveolengängige Fraktion
VLEP (France)	Long-term value: 0.1 mg/m ³ pour la fraction alvéolaire
TWA (Italy)	Long-term value: 0.025 mg/m ³ A2, (j)
OEL (Ireland)	Long-term value: 0.1 mg/m ³

Additional information: The lists valid during the making were used as basis.

8.2 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.

Respiratory protection::



NIOSH approved dust masks or filter face coverings are recommended for use in areas with poor ventilation or where dust removal does not maintain permissible exposure limits.

Protection of hands: Not required.

Material of gloves: Not applicable.

Penetration time of glove material: Not applicable.

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.

8.3 ENVIRONMENTAL EXPOSURE CONTROLS: None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Form:	Solid panel
Colour:	Grey/brown
Odour:	Low to no odor
pH-value @ 20° C:	9

Change in condition

Melting point/freezing point: 2,200° C

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: Not applicable.



SAFETY DATA SHEET

Page 6/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

PRINTING DATE: 11.08.2022

VERSION NUMBER: 5

REVISION: 11.08.2022

Trade Name: WARM SPRINGS™ Thermal-Lite Fire Door Core

Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density:	.29-.37 g/cm³
Bulk Density:	1.12 – 1.43 kg/m³ (18 - 23 lbs./cu. ft.)
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• 9.2 OTHER INFORMATION:	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

- **10.1 REACTIVITY:** No further relevant information available.
- **10.2 CHEMICAL STABILITY:** Product is stable under normal conditions.
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** No dangerous reactions known.
- **10.4 CONDITIONS TO AVOID:** No further relevant information available.
- **10.5 INCOMPATIBLE MATERIALS:**
Strong oxidizing agents.
Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire.
- **10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

• 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

1332-58-7 Kaolin

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rat)
Inhalative	LC50/4 h	>2 mg/l (Rat)

(CONTINUED ON PAGE 7)



SAFETY DATA SHEET

Page 7/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

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VERSION NUMBER: 5

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9004-34-6 Cellulose

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

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:

Skin corrosion/irritation May be irritating.

Serious eye damage/irritation May be irritating.

Sensitisation: Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT (Specific target organ toxicity)-single exposure: May cause respiratory irritation.

STOT (Specific target organ toxicity)-repeated exposure: Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Aquatic toxicity:

14808-60-7 Quartz (SiO2)

EC50	218 mg/l (Green algae)
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1332-58-7 Kaolin

LC50	>1.1 g/l, 48 hours (Daphnia)
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• **12.2 PERSISTENCE AND DEGRADABILITY:** No further relevant information available.

• **12.3 BIOACCUMULATIVE POTENTIAL:** No further relevant information available.

• **12.4 MOBILITY IN SOIL:** No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT: Not applicable.

vPvB: Not applicable.

• **12.6 OTHER ADVERSE EFFECTS:** No further relevant information available.



SAFETY DATA SHEET

Page 8/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Recommendation: Must not be disposed 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.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-NUMBER

ADR/ADN, IMDG, IATA Non-Regulated Material

14.2 UN PROPER SHIPPING NAME

ADR/ADN, IMDG, IATA Non-Regulated Material

14.3 TRANSPORT HAZARD CLASS(ES)

ADR/ADN, ADN, IMDG, IATA

Class Non-Regulated Material Non-Regulated Material

14.4 PACKING GROUP

ADR/ADN, IMDG, IATA Non-Regulated Material

14.5 ENVIRONMENTAL HAZARDS:

Not applicable.

14.6 SPECIAL PRECAUTIONS FOR USER

Not applicable.

14.7 TRANSPORT IN BULK ACCORDING TO

ANNEX II OF MARPOL AND THE IBC CODE

Not applicable.

UN "MODEL REGISTRATION"

Non-Regulated Material

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Directive 2012/18/EU: Substance is not listed.

Named dangerous substances - ANNEX I: None of the ingredients are listed.

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV): Substance is not listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II: None of the ingredients are listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)): None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: None of the ingredients are listed.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: None of the ingredients are listed.

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

15.2 CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.

**SAFETY DATA SHEET**

Page 9/9

REACH: Regulation (EC) No 1907/2006 (in particular as amended by Regulation (EU) No. 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

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SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (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
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Acute Tox. 4:	Acute toxicity – Category 4
Eye Irrit. 2:	Serious eye damage/eye irritation – Category 2
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3
STOT RE 1:	Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2:	Specific target organ toxicity (repeated exposure) – Category 2

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

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