



# SAFETY DATA SHEET

Creation Date 01-Feb-2014

Revision Date 28-Jul-2016

Version 1

## 1. IDENTIFICATION

**Product Name** Thermafiber K-FAC-19

**Product Code** OCMW00005

**Recommended Use** This product is used as a backup insulation in high temperature applications such as, furnaces, reactors and other processing units

**Manufacturer Address** Owens Corning Mineral Wool, LLC  
One Owens Corning Parkway  
Toledo, Ohio 43659

**Company Phone Number** 1-800-GET-PINK or 1-800-438-7465  
**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300  
**Emergency Telephone** 1-419-248-5330 (after 5 pm ET and weekends)

**E-mail address** [safetydatasheet@owenscorning.com](mailto:safetydatasheet@owenscorning.com)  
**Company Website** <http://owenscorning.com/>

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**WHMIS Regulatory Status** This chemical is considered hazardous by the Canadian Hazardous Products Regulation SOR/2015-17

Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

**Danger**

#### Hazard statements

May cause cancer  
May cause damage to organs through prolonged or repeated exposure



**ERG Code** If exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage** Store locked up

**Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)** • Not applicable

**Unknown acute toxicity** • No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Chemical Name	CAS No.	Weight-%	Trade Secret
Mineral Wool	65997-17-3	30-40	*
Aluminum hydrous silicate: Kaolin Clay	1332-58-7	20-30	*
Quartz	14808-60-7	1-5	*
Titanium Dioxide	13463-67-7	0.1-1	*

• The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product

• \*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

- Eye contact**
- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice
  - Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
  - DO NOT rub or scratch eyes
  - If eye irritation persists: Get medical advice/attention
- Skin contact**
- Wash off immediately with soap and plenty of cold water
  - DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers
  - Use a wash cloth to help remove fibers
  - DO NOT rub or scratch affected area
  - Remove contaminated clothing and shoes
  - If skin irritation persists, call a physician
  - If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin
  - Never use compressed air to remove fibers from skin
- Inhalation**
- Remove to fresh air
  - If symptoms persist, call a physician
- Ingestion**
- Accidental ingestion of this material is unlikely
  - Rinse mouth with water and drink water to remove fibers from the throat
  - If this does occur watch person for several days to make sure intestinal blockage does not occur
  - If symptoms persist, call a physician

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

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

**Unsuitable extinguishing media** • Caution: Use of water spray when fighting fire may be inefficient

**Specific hazards arising from the chemical** • No information available

**Hazardous combustion products**

- Carbon monoxide
- Carbon dioxide (CO<sub>2</sub>)
- Ammonia
- Other undetermined compounds could be released in small quantities

#### Explosion data

**Sensitivity to Mechanical Impact** • None

**Sensitivity to Static Discharge** • None

**Protective equipment and precautions for firefighters** • As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** • Avoid contact with eyes and skin

**Environmental precautions**

- See Section 12 for ecotoxicology additional information
- Prevent further leakage or spillage if safe to do so

### Methods and material for containment and cleaning up

**Methods for containment**

- This material will settle out of air
- Prevent from spreading by covering, diking or other means

**Methods for cleaning up**

- Use personal protective equipment as required
- Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry
- Take up mechanically, placing in appropriate containers for disposal
- Avoid creating dust
- Clean contaminated surface thoroughly
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination
- Avoid dry sweeping
- Pick up and transfer to properly labeled containers

## 7. HANDLING AND STORAGE

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

- Keep product in packaging until use to minimize potential dust generation
- Product should be kept dry and undercover

**Incompatible materials** • None known based on information supplied

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Aluminum hydrous silicate: Kaolin Clay 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

		fraction	
Starch 9005-25-8	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Ground Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Fiberglass wool 65997-17-3	TWA: 1 fiber/cm <sup>3</sup> respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m <sup>3</sup> inhalable fraction	-	-
Titanium Dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

NIOSH REL *Immediately Dangerous to Life or Health*

**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Controls**

Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits  
Dust collection system must be used in transferring operations, cutting or other dust generating processes, such as using power tools  
Vacuum or wet clean-up methods should be used

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

- Wear safety glasses with side shields (or goggles)

**Skin and body protection**

- Wear protective gloves
- Wear long-sleeved shirt and long pants

**Respiratory protection**

- When workers are facing airborne particulates/dust concentrations above the exposure limits, they must use an appropriate certified respirator
- A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended

**General Hygiene Considerations**

- Wash hands before breaks and immediately after handling products
- Remove and wash contaminated clothing before re-use

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C**

Solid

**Appearance**

Fibrous

**Odor**

None

**Color**

various

**Melting point / freezing point**

> 1150 °C / 2102 °F

**Boiling point / boiling range**

No information available

**Flash point**

No information available

**Water solubility**

Insoluble in water

**Autoignition temperature** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** • Not applicable

**Chemical stability** • Stable under recommended storage conditions

**Possibility of Hazardous Reactions** • None under normal processing

**Conditions to avoid** • None known

**Incompatible materials** • None known based on information supplied

**Hazardous Decomposition Products** • None known based on information supplied

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** • Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness

Chemical Name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Quartz 14808-60-7	= 500 mg/kg ( Rat )	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Immediate Health Effects:** Product may cause temporary skin and mucous membrane itching

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Mineral Wool 65997-17-3	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X
Titanium Dioxide 13463-67-7	-	Group 2B	-	X

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A2 - Suspected Human Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 1 - Carcinogenic to Humans*

*Group 2B - Possibly Carcinogenic to Humans*

*Group 3 - Not classifiable as a human carcinogen*

*NTP (National Toxicology Program)*

*Known - Known Carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	lungs.
<b>Target Organ Effects</b>	Eyes, lungs, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available. mg/kg

## 12. ECOLOGICAL INFORMATION

<b>Persistence and degradability</b>	• No information available
<b>Bioaccumulation</b>	• No information available
<b>Other adverse effects</b>	• No information available

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal of wastes</b>	• Disposal should be in accordance with applicable regional, national and local laws and regulations
<b>Contaminated packaging</b>	• Do not reuse container

## 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO (air)</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Mineral Wool 65997-17-3	X	X		926-099-9		X	X	X	X	X
Aluminum hydrous silicate: Kaolin Clay 1332-58-7	X	X		X		X	X	X	X	X
Quartz 14808-60-7	X	X		X		X	X	X	X	X
Titanium Dioxide	X	X		X		X	X	X	X	X

13463-67-7									
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**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

WARNING! This product contains a chemical known in the State of California to cause cancer

**U.S. State Right-to-Know Regulations**

<b>Chemical Name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
Aluminum hydrous silicate: Kaolin Clay 1332-58-7	X	X	X
Starch 9005-25-8	-	X	X
Quartz 14808-60-7	X	X	X
Ground Calcium Carbonate 1317-65-3	X	X	X
Titanium Dioxide 13463-67-7	X	X	X

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b>Creation Date</b>	01-Feb-2014
<b>Revision Date</b>	28-Jul-2016
<b>Revision Note</b>	This Safety Data Sheet replaces the Material Safety Data Sheet numbered Thermafiber®

No. 00001, Version 4. Changes include new format to meet US OSHA Revised Hazard Communication Standard 2012 (HCS) 29 CFR 1910.1200 requirements

**Disclaimer**

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use

**End of Safety Data Sheet**