



HEATSHIELD PRODUCTS, INC.

HEAT PROTECTION YOU CAN COUNT ON

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Revision 03/10

MSDS SHEET

PRODUCT NAME: HEATSHIELD ARMOR™

SECTION 1: CHEMICAL PRODUCT

Chemical Name: *Aluminosilicate Ceramic Fiber 128kg/m³*

CAS Number: 142844-00-6

Product Use: *Thermal Insulation*

SECTION 2: COMPOSITION/INGREDIENT INFORMATION

| CAS# | Component/Ingredient | Percent by Weight |
|-------------|-------------------------------|-------------------|
| 142844-00-6 | Aluminosilicate Ceramic Fiber | 40-100 |
| 7732-18-5 | Water | 0-60 |

See Section 8 of this MSDS for exposure limit data for these ingredients

SECTION 3: HAZARDS IDENTIFICATION

Appearance and Odor: White fibrous/ no odor

Potential Health Effects:

Acute Inhalation: *Dust from this product may cause mechanical irritation of nose, throat and respiratory tract.*

Skin Contact: *Exposure to this product may cause temporary irritation to the skin. Itching and possible inflammation are a mechanical reaction to the fibers and are not damaging in the way that chemical irritants may be.*

Eye Contact: *Dust from this product may cause temporary mechanical irritation to the eyes.*

Ingestion: *Ingestion of this product is unlikely. However ingestion may produce gastro-intestinal irritation and disturbances.*

Medical Conditions Aggravated by Exposure: *Chronic respiratory or skin conditions will not improve and may worsen with exposure to this product.*

Carcinogenicity: NTP-n/a IARC-yes* OSHA-n/a

*Categorized as not classifiable relative to human carcinogenicity

Ingredient: *Aluminosilicate Ceramic Fiber*

IARC: *Group 3, not classifiable as carcinogenic to humans*

OSHA: *Not listed*

SECTION 4: FIRST AID MEASURES

Inhalation: Remove from further exposure. If Cough or other symptoms develop, seek medical attention.

Skin Contact: If skin becomes irritated, do not rub or scratch. Wash the affected area with soap and water.

Eye Contact: If eyes become irritated, flush immediately with lukewarm water for 15 minutes.

Ingestion: Drink plenty of water to reduce irritation. If irritation persists, seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

| | | | |
|-----------------------------------|----------------|--|----------------|
| Is this product flammable? | No | Lower Flammability Limit | Not Available |
| Flash Point | Not Applicable | Flammability Classification | Not Determined |
| Upper Flammable Limit | Not Applicable | Explosion Data – Sensitivity to mechanical impact | Not Available |
| Flash Point Method | Not Applicable | Hazardous Combustion Products Data | Not Available |

General Fire Hazards: There is no potential for fire or explosion.

Extinguishing Media: Dry chemical, foam, carbon dioxide, and water fog.

Fire Fighting Instructions: No special procedures necessary. Use normal fire fighting procedures.

SECTION 6: ACTIONS ON INADVERTENT RELEASE

Containment Procedures: Pick up any large pieces. Use high efficiency vacuum to clean up spilled material. Use wet sweeping where sweeping is necessary. Do not use compressed air for clean up.

Clean-Up Procedures: Collect material and place in a suitable container for disposal as non-hazardous waste.

SECTION 7: HANDLING AND STORAGE

General Storage: Use good and safe workplace practices when handling this material.

Handling: Handling and use in a manner consistent with good industrial & manufacturing techniques and practices.

Storage: Store in un-opened containers under cool and dry conditions.

Storage Temperature: Not Determined

Loading Temperature: Not Applicable

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: *If dust is generated, provide local exhaust ventilation to control airborne levels below ACGIH TLV-TWA exposure limit for Particulates Not Otherwise Classified of 10mg/m³ for inhalable particles and 3mg/m³ for respirable.*

Personal Protective Equipment:

Eyes and Face: *Wear safety glasses with side shields or goggles when handling this material.*

Skin: *Use appropriate workplace clothing and procedures when using this material*

Respiratory: *If airborne dust is present, use a NIOSH approved particulate respirator. (3M 8710)*

Comments *This product contains no known OSHA hazardous ingredients per 29 CFR 1910.1200*

Hazardous Ingredients

Aluminosilicate Ceramic Fiber

OSHA PEL

N/A

Particular care should be taken when working with material that has been in service to minimize dust. If exposure limits are exceeded or if irritation is experienced, approved respiratory protection should be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------|----------------|--|----------------|
| Appearance | White | Odor | Odorless |
| Physical State | Fibrous | pH in water | Not Applicable |
| Vapor Density | Not Applicable | Melting Point | 3200 ° F + |
| Vapor Pressure | Not Applicable | Freezing Point | Not Applicable |
| Specific Gravity | 2.50-2.75 | Solubility | Insoluble |
| Odor Threshold | Not Applicable | Boiling Point | Not Applicable |
| Evaporation Rate | Not Applicable | Coefficient of Water/Oil Distribution | Not Applicable |

SECTION 10: CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability: *This is a stable material*

Reactivity: *Not reactive.*

Hazardous Decomposition: *Not applicable. Contains no organic compounds that would oxidize during decomposition.*

Incompatible Material: *Basic phosphates, Hydrofluoric acid, some oxides and hydroxides*

Hazardous Polymerization: *Will not occur*

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

A) General Product Information: *Dusts may cause mechanical irritation to skin and eyes. Inhalation may cause coughing, nose and throat irritation or sneezing.*

B) Component Analysis:

Component Carcinogenicity: *None known*

Irritancy of the Product:

Acute Inhalation: *Dust from this product may cause mechanical irritation of the nose, throat and respiratory tract.*

Skin Contact: *Dust from this product may cause temporary irritation to the skin.*

Eye Contact: *Dust from this product may cause temporary mechanical irritation to the eyes.*

SECTION 12: ECOLOGICAL INFORMATION

No ecological concerns can be identified with this product

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number and Descriptions:

A) General Product Information: *This product is not expected to be a characteristic waste under RCRA.*

B) Component Waste Numbers: *No EPA Numbers are applicable for this product's components.*

Disposal Instructions: *This product can be disposed of in a normal manner. Local regulations may apply.*

SECTION 14: TRANSPORTATION INFORMATION

US DOT Regulations:

Primary Hazard Class / Division: *This product has no classification.*

Other Shipping Information: *Product should remain in a proper container during transportation.*

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:

A) General Product Information: *No additional information available*

B) Component Analysis: *None of the components of this product are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).*

State Regulations:

A) General Product Information: *No Additional Information available.*

B) Component Analysis – State: *The Following Components appear on one or more of the state hazardous substance list:*

| Component CAS# | CA | FL | MA | MN | NJ | PA |
|--|----|----|----|----|----|----|
| Aluminosilicate Ceramic Fiber 142844-00-6 | No | No | No | No | No | No |

Other Regulations:

A) General Product Information: *No additional Information available.*

B) TSCA Status: *This Product and its components are listed on the TSCA 8(b) inventory. None of the components listed on the TSCA Export Notification 12(b) list.*

C) Component Analysis - Inventory

| Component | CAS# | TSCA | DSL | ELNCS |
|----------------------------------|-------------|------|-----|-------|
| Aluminosilicate Ceramic Fiber | 142844-00-6 | No | No | No |

D) Canada Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION