

HOTTEC CORP.

FABCERAM F111

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY DESCRIPTION

Hottec Corp.
One Terminal Way
Norwich, CT 06360

Emergency Phone Numbers:

For emergencies involving a spill, leak, fire, exposure, or accident
Contact: Hottec Corp. 860-887-5111, evenings 860-822-1701

For Product Information:

860-887-5111

Chemical Name or Synonym:

Cementous Aluminates

HMIS:

Health 0
Flammability 0
Reactivity 1

2. INGREDIENT INFORMATION

<u>Component</u>	<u>CAS Number</u>	<u>Exposure Limits</u>	
<u>Typical Weight Percent</u>			
Calcium Aluminate	12042-68-1	10, 5 mg/m ³ (respirable)	
97.0			
*Silicon Dioxide	Not Available	{80% / (%SiO ₂)}	0.3

*Expressed as oxide equivalent

3. HAZARDS IDENTIFICATION

Emergency Overview:

No unusual fire or spill hazard. Low Health risk by inhalation. May irritate eyes. Avoid repeated or prolonged skin contact. Off-white powder. Non-flammable, not an explosion hazard.

Potential Health Effects:

Eyes – May cause irritation, especially when wet.

Skin – May irritate skin.

Inhalation – May cause upper respiratory irritation.

This product contains silicates at less than 1% by weight. Silicates include metal silicates, amorphous and crystalline silica. No analytical method exists to detect and differentiate between amorphous and crystalline silica and other silicates at less than 1% by weight. Based on the chemistry of bauxite-derived products, crystalline silica is not expected to be present in this product.

Alumina is a low health risk by inhalation and should be treated as a nuisance dust as specified by the American medical conditions aggravated by exposure: Asthma, chronic lung disease, and skin rashes.

4. FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 20 minutes. If irritation persists, consult a physician.

Skin:

Wash with soap and warm water for at least 20 minutes. If irritation develops, consult a physician.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

Ingestion:

Do not induce vomiting. Never give anything by mouth to a convulsing or unconscious person. If swallowed, dilute by drinking large amounts of water. Consult a physician.

5. FIRE FIGHTING MEASURES

Flammable Properties:

Non-flammable

Flash Point – None

Flammable Limits – None

Auto-Ignition Temperature:

Not applicable

Hazardous Decomposition Products:

None

Extinguishing Media:

Use extinguishing agent applicable to surrounding fire.

Fire-fighting instructions:

Fire-fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

Small/large spill:

Wear protective clothing; avoid dusting. Do not allow product to reach sewage system or water bodies. Clean up using dry procedures. Collect mechanically.

7. HANDLING AND STORAGE

Handling:

Ensure good ventilation/exhaust at the workplace. Prevent formation of dust. Provide suction extractors if dust is formed.

Storage:

Keep material dry. Keep receptacle tightly sealed.

8. EXPOSURE CONTROLS

Engineering Controls:

Use with adequate ventilation to meet exposure limits listed in section 2

Respiratory Protection:

NIOS approved dust respirator.

Skin Protection:

Gloves, long-sleeved shirt.

Eye Protection:

Chemical goggles recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Off-white powder (90% thru 200 mesh; 85% thru 325 mesh)

Boiling Point:

Not applicable.

Melting Point:

1760 to 1816 degrees C

Vapor Pressure:

Not applicable

Vapor Density:

Not applicable

Solubility in Water:

Forms slurry

Specific Gravity:

Not determined

Density:

Loose-56 pcf; packed-92 pcf

pH (10% slurry):

11.5

Odor:

None

Odor threshold:

Not applicable.

Coefficient of Water/oil distribution:

Not applicable.

10. STABILITY AND REACTIVITY

Chemical Stability (conditions to avoid):

Keep away from water. A rise in temperature may result from contact with water.

Incompatibility:

None

Hazardous Decomposition Products:

None

Hazardous Polymerization:

None

This material reacts with water to form an alkaline slurry as a binder for refractories. Explosive steam spalling may result from improper curing, drying, and firing procedures of refractories (see references, section 16). For safest use and optimum performance, proper practices must be followed.

11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

Silicon:

LD50 (oral-rat) 3, 160 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicological/chemical fate information is not available.

Water Hazard Class 1 (self-assessment):

Slightly hazardous for water. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

13. DISPOSAL CONSIDERATIONS

Collect in container, bags, or covered dumpster boxes. If reuse or recycling is not possible, material may be disposed of at an industrial landfill. Consult with the operator of the waste disposal facility and the pertinent authorities and dispose under adherence to the necessary technical regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT – Not regulated
Canadian TDG Hazard Class & Pin – Not regulated
Europe – Non Hazardous.

15. REGULATORY INFORMATION

U.S. Federal Regulation

Clean Air Act-This material does not contain nor was it manufactured using ozone depleting chemicals.

TSCA Status-Listed on TSCA inventory.

Cercla Reportable Quantity-None

Sara Title III-Section 302 extremely hazardous substance	None
Section 311/312 hazardous categories	Acute
Section 313 Toxic chemicals	None

RCRA Status-Not regulated

Europe Waste Disposal-Key number 513 05

International Regulations

Canadian SHMIS-Listed on DSL.

EINECS-All components of this product are on the European inventory of existing commercial chemical substances.

Australia-All components of this product are listed on the AICS inventory.

16. OTHER INFORMATION

Used as a cement in refractories

References:

“Explosive spalling of refractory castables bonded with calcium aluminate cement”, ALCOA, 1979. Pub. F35-11467.

American industrial hygiene association, hygienic guide series, June 1978 edition.

U.S. department of health and human services, NIOSH: Registry of toxic effects of chemical substances, 1985-86 edition.

Sax, N. Irving: Dangerous properties of industrial materials, Van Nostrand Reinhold Co., 1984

American conference of governmental industrial hygienists, Inc. (ACGI), Documentation of the threshold limit values and biological exposure indices, sixth edition, 1992

Information herein is given in good faith as authoritative and valid; however, no warranty, express or implied can be made.