

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: XERCAST 95
Recommended Use: Refractory Material
Supplier: Xertech Specialties LLC
Address: 1422 Hoelzer Ct., Dailey Industrial Park, Pacific, MO 63069
General Phone: (636) 271-0586 **Fax:** (636) 271-0587
Emergency Phone: (636) 271-0586 7:00-15:00 CST Monday-Friday

SECTION 2 - HAZARDS IDENTIFICATION**GHS/US CLASSIFICATION**

GHS-07

Signal Word: Warning**Hazard Statements:**

H315 Causes skin irritation
H320 Causes eye irritation

Precautionary Statements:

P260 Do not breathe dust
P264 Wash hands thoroughly after handling
P270 Do not eat, drink, or smoke when using this product
P280 Wear eye protection, dust respirator, protective gloves

SECTION 3 – COMPOSITION/INFORMATION ON MIXTURE INGREDIENTS

| COMPONENT | CAS No. | % | GHS-US Classification |
|-----------------------------|------------|--------|--|
| Aluminum Oxide, Non-Fibrous | 1344-28-1 | 60-100 | Not classified |
| Calcium Aluminate Cement | 65997-16-2 | 3-7 | Skin Irrit. 2, H315 Eye Irrit. 2B, H320 |
| Silica, Amorphous | 69012-64-2 | 1-5 | Skin Irrit. 2, H315 Eye Irrit. 2B, H320 |

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

- Inhalation:** Move person to fresh air. Call a physician if symptoms develop or persist.
- Skin Contact:** Wash off with soap and water. Seek medical attention if irritation develops and persists.
- Eye Contact:** Rinse eyes with water for several minutes. Seek medical attention if irritation develops.
- Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Inhalation:** May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
- Skin Contact:** Causes skin irritation.
- Eye Contact:** Causes eye irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Water spray, dry powder, foam

Unsuitable Extinguishing Media: None known

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous Combustion Products: Not combustible. Hydraulic setting.

ADVICE FOR FIREFIGHTERS

Fire Fighting Instructions: Fire-fighters should use standard protective equipment in enclosed spaces, self-contained breathing apparatus (SCBA).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For Non-Emergency Personnel: Ensure area is as well ventilated as possible before tackling spillage. Avoid contact with skin and eyes. Do not breathe dust.

For Emergency Responders: Do not attempt to take action without suitable protective equipment, including respiratory protection. For further information, refer to Section 8.

ENVIRONMENTAL PRECAUTIONS

General: Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

For Cleaning Up: Sweep or shovel into suitable containers. Minimize generation of dust.

REFERENCE TO OTHER SECTIONS

General: See sections 8 and 13.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Do not breathe dust or vapors. Provide good ventilation at all times. Keep out of the reach of children. Wash contaminated clothing before reuse. Always wash hands after handling the product.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store this product in original packaging in a dry location where it can be protected from the elements.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

| COMPONENT | ACGIH TLV | OSHA PEL (TWA) |
|--|---|---|
| Aluminum Oxide, Non-Fibrous (1344-28-1) | 1 mg/m ³ resp. dust | 15 mg/m ³ total 5 mg/m ³ resp. |
| Calcium Aluminate Cement (65997-16-2) | 3 mg/m ³ resp. 10 mg/m ³ inhalable | 10 mg/m ³ total 5 mg/m ³ resp. |
| Silica, Amorphous (69012-64-2) | Withdrawn | 80 mg/m ³ SiO ₂ |

Notes: TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

EXPOSURE CONTROLS

Appropriate Engineering Controls: Ensure adequate ventilation.

Individual Protection Measures, Such As Personal Protective Equipment: Wear appropriate dust mask. Wear protective gloves. Avoid contact with eyes. Wear goggles, suitable protective clothing, and closed footwear. Wash hands before eating, drinking, and/or smoking.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------|-------------------|--------------------------|-------------------|
| Physical State: | Solid | Vapor Pressure: | Not applicable |
| Appearance: | Granular mixture | Vapor Density (Air = 1): | Not applicable |
| Color: | Light grey | Relative Density: | 2.5 |
| Odor: | Earthy odor | Solubility: | Water: Slight |
| pH: | No data available | Partition Coefficient: | No data available |
| Melting Point: | >3000 °F | Auto-ignition Temp: | No data available |
| Freezing Point: | Not applicable | Decomposition Temp: | No data available |
| Boiling Point: | Not applicable | Viscosity: | Not applicable |
| Flash Point: | Not applicable | Explosive Properties: | No data available |
| Evaporation Rate: | Not applicable | Oxidizing Properties: | No data available |
| Flammability (solid, gas): | Not applicable | | |

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: Product is non-reactive under normal conditions of use, storage, and transport.

CHEMICAL STABILITY: Product is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known during recommended use.

CONDITIONS TO AVOID: Avoid dust formation. Avoid heating in fire.

INCOMPATIBLE MATERIALS: None detailed.

HAZARDOUS DECOMPOSITION PRODUCTS: No additional information available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Carcinogenicity:

Amorphous Silica: IARC Group 3 – not classifiable as to its carcinogenicity to humans (ACGIH).

Acute Toxicity:

Amorphous Silica: ORAL acute (LD50): 3,160 mg/kg (rat). INTRAVENOUS acute (LD50): 15 mg/kg (Rat). (RTECS) (2009). Registry of Toxic Effects of Chemical Substances, NIOSH, CDC

Toxicity:

Aluminum Oxide: ORAL (LD50): >10,000 mg/kg (rat)

Amorphous Silica: Tuberculosis

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY: This product is not considered harmful to aquatic organisms or to cause long-term adverse effect in the environment.

PERSISTENCE AND DEGRADABILITY: No additional information available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

OTHER ADVERSE EFFECTS: No adverse effects are expected

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Waste Disposal Recommendations: Dispose in a safe manner in accordance with local regulations.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14 – TRANSPORT INFORMATION

In accordance with DOT, not regulated for transport

This product is not regulated for transport according to ADR/RID/ADN, IMDG, ICAO-TI/IATA-DGR

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15 – REGULATORY INFORMATION

US STATE REGULATIONS

U.S. New Jersey: Silica, Amorphous (69012-64-2) Right to Know Hazardous Substance List

U.S. Pennsylvania: Silica, Amorphous (69012-64-2) Right to Know Hazardous Substance List

INTERNATIONAL REGULATIONS

Canadian WHMIS Classification: D2B

SECTION 16 – OTHER INFORMATION

ABBREVIATIONS

ACGIH: American Conference of Governmental Industrial Hygienists

DOT: Department of Transportation

IARC: International Agency for Research on Cancer

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

STOT RE 1: Specific Target Organ Toxicity, Repeated Exposure

WHMIS: Workplace Hazardous Materials Information System (Canada)

DISCLAIMER: Reasonable care has been taken in the preparations of the information provided, and it is believed to be accurate as of the preparation date. However, Xertech Specialties LLC makes no representation or warranties, and assumes no responsibility as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purpose prior to use. Xertech Specialties LLC assumes no liability to any user thereof, nor shall this establish a legally valid contractual relationship to the product.