

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** ACTCHEM 75  
**Recommended Use:** Refractory Material  
**Supplier:** Artech Technologies, Inc.  
**Manufacturer:** Xertech Specialties LLC  
**Manufacturer 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:** Danger

**Hazard Statements:**

H315 Causes skin irritation  
H320 Causes eye irritation

**Precautionary Statements:**

P260 Do not breathe dust  
P264 Wash hands thoroughly after handling  
P280 Wear eye protection, protective gloves

**SECTION 3 – COMPOSITION/INFORMATION ON MIXTURE INGREDIENTS**

COMPONENT	CAS No.	%	GHS-US Classification
Aluminum Oxide, Non-Fibrous	1344-28-1	40-70	Not classified
Calcium Aluminate Cement	65997-16-2	7-13	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Silica, Amorphous	69012-64-2	5-10	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**

- 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)
<b>Aluminum Oxide, Non-Fibrous (1344-28-1)</b>	1 mg/m <sup>3</sup> resp. dust	15 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup> resp.
<b>Calcium Aluminate Cement (65997-16-2)</b>	3 mg/m <sup>3</sup> resp. 10 mg/m <sup>3</sup> inhalable	10 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup> resp.
<b>Silica, Amorphous (69012-64-2)</b>	Withdrawn	80 mg/m <sup>3</sup> SiO <sub>2</sub>

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:	>2400 °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

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**SECTION 15 – REGULATORY INFORMATION**

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**INTERNATIONAL REGULATIONS**

**Cristobalite (14464-46-1):** IARC Group 3 (International Agency for Research on Cancer)

**Canadian WHMIS Classification:** D2B

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**SECTION 16 – OTHER INFORMATION**

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**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)

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