

Fiber Ceramics, Inc.
Ceramic Foam Filters & Advanced Refractories

SAFETY DATA SHEET

FiberOx^R Z

SECTION I – GENERAL INFORMATION

Manufacturer: Fiber-Ceramics, Inc.
2121 E. Norse Ave.
Cudahy, WI 53110

Emergency Contact: 414 769-8155

Trade Name: FiberOx Z
Product Type: Sintered Ceramic Foam Body

SECTION II- HAZARD IDENTIFICATION

WARNING: Irritant



SECTION III – CHEMICAL COMPOSITION

<u>Components:</u>	<u>CAS #</u>	<u>%</u>
Zirconium Oxide	1314-143	95 - 97
Yttrium Oxide	1314-36-9	2 – 4
Aluminum Oxide	1344-282	<1.0

Note: Specific percentages of chemical composition have been withheld due to proprietary information

SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air
Eyes: Flush with water for 15 minutes. Get medical attention if irritation persist.
Skin: Wash with soap and water. Get medical attention if irritation persist
Ingestion: Do not induce vomiting. Get medical attention.

SECTION VI – ACCIDENTAL RELEASE CONTROL MEASURES

Steps to be taken in case of a spill: Control spill, avoid work practices that create fine dust particles during cleanup.

SECTION VII – HANDLING AND STORAGE

Eye Protection: Wear protective goggles or safety glasses with side shields.
Protective Gloves: Impervious gloves are recommended.
Storage: Store in a dry environment. Avoid strong oxidizers and potassium nitrate

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION PROCEDURES

<u>Components:</u>	<u>CAS #</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Zirconium Oxide	1314-143	95 - 97	5 mg/m3 as (Zr)	5 mg/m3 TWA 10 mg/m3 STEL
Yttrium Oxide	1314-36-9	2 – 4	1 mg/m3 as (Y)	1 mg/m3 as Y
Aluminum Oxide	1444-281	<1	15 mg/m3 Total dust 5 mg/m3 Respirable fraction	1mg/m3 as Al

Control Measures:

Ventilation: Local exhaust recommended, when necessary, to maintain exposure below the permissible limit.
Respiratory Protection: Use NIOSH approved respirator for exposure above permissible limit.
Protective Gloves: Impervious gloves are recommended.
Eye Protection: Dust goggles or safety glasses with side shields are recommended.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Light to dark beige porous body. Odorless
Specific Gravity (H₂O = 1) 4.5 – 4.7 g/cc
Solubility in water: None
Flash Point: None
PH: N/A
Evaporation Rate: N/A
Vapor Pressure: N/A
Vapor Density: N/A
LEL: None
UEL: None
Auto Ignition Temp.: None
Boiling Point: Not determined
Melting Point: 2700 C
Flammability: None
Decomposition Temp.: Not determined
Partition Coefficient: Not determined

SECTION X – STABILITY AND REACTIVITY DATA

Stability Data: Unstable_ Stable_ ☒ X
Incompatibility (Conditions to avoid) Strong oxidizing agents, potassium nitrate
Hazardous Polymerization: May Occur_ Will Not Occur_ ☒ X
Hazardous Decomposition Products: Zirconium oxide, Yttrium oxide, aluminum oxide

SECTION XI – TOXOLOGICAL INFORMATION

Effects of Overexposure:

Inhalation: May cause respiratory irritation with prolonged exposure above the permissible limit possibly resulting in lung granulomas.
Eyes: May cause irritation to outer surface of eyes.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal disturbances, irritation and nausea.

Studies have shown that zirconium compounds may cause lung granulomas with prolonged exposure.

SECTION XII – ECOLOGICAL INFORMATION

Hazard to Ozone Layer: Not determined
Aquatic Toxicity Classification: Mixture
Acute Aquatic Toxicity: Not Determined
Chronic Aquatic Toxicity: Not Determined

This material may be subject to SARA Title III Reporting requirements.
40 CFR 355.30 Emergency Planning
40 CFR 355.40 Emergency Release Notification
40 CFR 370.00 Hazardous Chemical Reporting

SECTION XIII – DISPOSAL METHODS

Dispose of in accordance with local, state, and federal regulations.

SECTION VX – TRANSPORT INFORMATION

Not Regulated

Non-powdered, non-metallic zirconium compounds are not regulated for transportation shipping.

SECTION XV – REGULATORY INFORMATION

OSHA Standard for General Industry (29 CFR Parts 1910)
American Conference of Governmental Industrial Hygienist TLV's
U.S. Department of Transportation
International Maritime Dangerous Goods Code (IMDG)
RCRA Regulations 40 CFR 239-282 Subtitle D

SECTION XVI – SDS PREPARATION DATE

December 2013
