



High Purity Engineered Powders

# MSDS

## MATERIAL SAFETY DATA SHEET

### ZIROX 180

TAM Product ID 51443A

Revision No. 2

April, 1996

### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

TAM Ceramics Product Identification Number: 51443A

#### Tradenames and Synonyms

ZrO<sub>2</sub>  
ZIRCONIUM OXIDE  
ZIRCONIA  
ZIRCONIC ANHYDRIDE

#### Company Identification

MANUFACTURER

TAM CERAMICS, INC.  
4511 Hyde Park Blvd.  
Niagara Falls, NY 14305-0067

#### PHONE NUMBERS

Product Information	1-716-278-9400
Transport Emergency	CHEMTREC: 1-800-424-9300
Safety/Health Information	1-716-278-9423

Cookson



## COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Material	CAS Number	%
ZIRCONIUM DIOXIDE	1314-23-4	98
SILICON DIOXIDE (AMORPHOUS)	7631-86-9	1.5
TITANIUM, FERROUS, ALUMINUM, AND CALCIUM OXIDES	-----	<1.0

## HAZARDS IDENTIFICATION

### Potential Health Effects

**SUMMARY OF RISKS: ACUTE/CHRONIC EFFECTS:** Lung granulomas have been reported in zirconium dioxide workers. Tests on animals indicate that it delivers a very low order of toxicity on inhalation. As with any dust, inhalation of excessive amounts of this dust may cause irritation of the nose and respiratory tract. Use of ointments containing zirconium dioxide are reported to cause skin lesions (granulomas).

This product contains trace quantities (130 to 145 pCi/g) of naturally occurring uranium and thorium. Overexposure by inhalation of respirable dusts containing these radioactive elements may cause lung cancer.

This product also contains amorphous fumed silica. Overexposure by inhalation of respirable dusts may cause respiratory problems including pneumoconiosis.

### Target Organs

None reported.

### Primary Entry Route

This product can enter the body by ingestion or inhalation.

### Carcinogenicity Information

This product is not considered a known or suspected carcinogen by the NTP, IARC, or OSHA.