



## MATERIAL SAFETY DATA SHEET

Product: FLOSAN® Z  
Date Prepared: August 1, 2006

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### SECTION I

#### Manufacturer's Name & Address

Fedmet Resources Corporation  
6402 Woodberry Court  
East Amherst, NY 14051 USA

#### Trade Name & Synonyms

FLOSAN® Z

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### SECTION II

#### MINERAL ANALYSIS

Magnesium Oxide  
Silica Oxide  
Iron Oxide  
Alumina Oxide  
Chromium Oxide  
Carbon  
Zircon Sand

#### ELEMENTS

MgO  
SiO<sub>2</sub>  
Fe<sub>2</sub>O<sub>3</sub>  
Al<sub>2</sub>O<sub>3</sub>  
Cr<sub>2</sub>O<sub>3</sub>  
C  
ZrSiO<sub>4</sub>

#### % IN WEIGHT

3-9  
3-23  
6-21  
3-12  
11-38  
Yes  
10-70

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### SECTION III - PHYSICAL DATA

#### Boiling Point

N/A

#### Specific Gravity (H<sub>2</sub>O=1)

2.2 -2.4

#### Vapor Pressure

N/A

#### % Volatile by Volume

N/A

#### Vapor Density

N/A

#### Evaporation Rate

N/A

#### Solubility in Water

N/A

#### Appearance and Odor:

Black, no odor

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

#### Flash Point (method used)

Refractory Material

#### Special Firefighting Procedures

This product is non flammable and will not support combustion

#### Flammable or Explosive Limits

N/A

#### Unusual Fire & Explosion Hazards

None

#### Extinguishing Media

N/A



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### SECTION V - REACTIVITY DATA

**Stability**

Product is stable

**Incompatibility**

None

**Hazardous Decomposition Products**

None

**Hazardous Polymerization**

Will not occur

### SECTION VI - HEALTH HAZARD DATA

	<b>CAS NO.</b>	<b>%</b>	<b>OSHA PEL</b>	<b>TLV</b>
<b>RESPIRABLE DUST</b>				
<b>Free silica (crystalline)</b>	<b>14808-60-7</b>	<b>3-23</b>	<b>10mg / m<sup>3</sup></b>	<b>10mg / m<sup>3</sup></b>
			<b>%free silica+2</b>	<b>%free silica+2</b>
<b>Magnesium oxide</b>	<b>1309-18-4</b>	<b>3-9</b>	<b>10mg/m<sup>3</sup></b>	<b>5 mg/m<sup>3</sup></b>
<b>Chrome oxide</b>	<b>1308-31-2</b>	<b>11-38</b>	<b>0.5 mg/m<sup>3</sup></b>	<b>0.5 mg/m<sup>3</sup></b>
<b>Aluminum oxide</b>	<b>1344-28-1</b>	<b>3-12</b>	<b>15 mg/m<sup>3</sup></b>	<b>10 mg/m<sup>3</sup></b>
<b>Carbon</b>	<b>1333-86-4</b>	<b>0-5</b>	<b>3.5 mg/m<sup>3</sup></b>	<b>3.5 mg/m<sup>3</sup></b>
<b>Zircon sand</b>	<b>14940-68-2</b>	<b>10-70</b>	<b>5 mg/m<sup>3</sup></b>	<b>5 mg/m<sup>3</sup></b>

**Threshold Limit Value**

N/A

**Effects of overexposure and procedures:**

No hazards unless finer particles lodge in eyes.

Zircon Sands contain trace quantities of naturally occurring radioactive uranium and thorium (less than or equal to 440 ppm total uranium and thorium or 0.044 % w/w, equivalent to 90-110 pCi/g or less), and radium (less than or equal to 100-120 pCi/g). Naturally Occurring Radioactive Material, namely uranium, thorium, and their decay products, including radium, is commonly referred to as "NORM".

The main radiological hazard from the product is internal exposure from small amounts of alpha particles given off by inhaled dust. Industrial hygiene practices aimed at control of airborne dust can lessen the potential for exposure. Overexposure by inhalation to inhaled dusts containing radioactive uranium, thorium, and radium may cause lung cancer. Low level gamma radiation in proximity to bulk or bagged stockpiles of zircon may present a lesser, external exposure that can be managed by limiting close proximity for long time periods to large volumes of material. Zircon is exempt from Nuclear Regulatory Commission (NRC) regulations for source material per 10 CFR 40, since it falls under the definition of "unimportant quantity source material" containing less than 0.05% uranium or thorium.

Some states may apply NRC type radiation protection standards for NORM above background levels, or may have NORM specific regulations. It is recommended that you consult with current regulations.



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### SECTION VII – SPILL OR LEAK PROCEDURES

#### Waste Disposal Method

Disposal of material according to local, state or federal regulations and as final used condition of the product dictates

#### Steps to be Taken if Material is Spilled

None necessary

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### SECTION VIII – SPECIAL PROTECTION INFORMATION

#### Respiratory Protection

In dusty environments above the TLV or PEL the use of a NIOSH approved respirator for pneumoconiosis-producing dust is recommended.

#### Protective Gloves

Recommended

#### Eye Protection

In dusty environments, the use of tight-fitting goggles is recommended.

#### Ventilation

Local exhaust can be used, if necessary, to control airborne dust levels.

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