

# MATERIAL SAFETY DATASHEET

## Pressed Zirconium oxide products



First publication: 2009 - 09 - 12	Updating:
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### 1. Identification of the substances / preparation and company / undertaking

1.1 Identification of the substance	1.2 Use of the product	1.3 Company/ undertaking identification	1.4 Emergency phone
Aptazirox C4 Aptazirox CF	Slab, saggar and other kiln furniture	IMERYS Kiln Furniture Ltd H-6800 Hodmezovasarhely Erzsebeti ut 7. Pf.: 179 Hungary Phone: +36 62 242 914 Fax: +36 62 245 634	IMERYS Kiln Furniture Ltd H-6800 Hodmezovasarhely Erzsebeti ut 7. Pf.: 179 Hungary Phone: +36 62 535 314 Name: Jozsef Meglieri

### 2. Hazards identification

**Classification:** The article is not considered as dangerous for health and environment according to regulation in force

**Complementary informations:** This product contains small amounts of naturally occurring uranium and thorium.

The total amount of radioactivity is less than 95Bq/g

### 3. Composition / information on ingredients

Ingredient name	%	CAS number	Einecs number	Classification
ZrO <sub>2</sub>	90-100	1314-23-4	215-227-2	Non-hazardous
CaO	0-10	1305-78-8	215-138-9	Non-hazardous

### 4. First-aid measures

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**Eye contact:** If dust of the product or part worn off contacts the eye should flush out with plenty of water for at least 15 minutes. In case of steady irritation consult a physician

**Skin contact:** Wash with plenty of water for at least 15 minutes; Consult a physician if irritation persists

**Inhalation:** No particularly recommendation

**Ingestion:** No particularly recommendation

### 5. Fire-fighting measures

**Suitable extinguish media:** The product is not combustible and combusive; the product can contact any extinguish media

**Special exposure hazards:** The product is not combustible, in fire it does not decompose

**Special protective equipment for the fire-fighters:** None

### 6. Accidental release measures

**Personal protecting apparatus:** See section 8

**Environmental measures:** No particularly recommendation

**Cleaning / decontamination measures:** Prevent the scattering of fine particles

### 7. Handling and storage

**7.1 Handling:** Apply water when machining to avoid the dispersion of fine particles

**7.2 Storage:** Keep dry and frostless place, in cage or on pallet

**7.3 Specific uses:** None

### 8. Exposure controls / Personal protection

**8.1 Exposure limit values:** See section 16

**8.2 Exposure controls**

**8.2.1 Occupational exposure controls:**

**8.2.1.1 Respiratory protection:** In case of dust, use protective mask type PPP3.

**8.2.1.2 Hand protection:** Wear appropriate gloves to avoid any skin injury

**8.2.1.3 Eye protection:** Wear appropriate glasses/goggles to avoid eye injury

**8.2.1.4 Skin protection:** Use protective clothes to prevent irritation

**8.2.2 Environmental exposure controls:** None

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### 9. Physical and chemical properties

#### 9.1 Appearance

- Physical state : solid
- Colour : Off-white to yellow
- Odour : odourless

#### 9.2 Important health, safety and environmental information

- pH value : Not applicable
- Melting point : above 1400°C
- Flash point : not applicable
- In flammability : not applicable
- Explosive properties : not applicable
- Oxidising properties: not applicable
- Vapour pressure : not applicable
- Apparent density: 4.1 ton/m<sup>3</sup>
- Solubility : not soluble in water and common solvents
- Partition coefficient n-octanol / water: not applicable
- Viscosity: not applicable
- Vapour density: not applicable
- Evaporation rate: not applicable

### 10. Stability and reactivity

**Stability:** The article is stable in the normal conditions of temperature and pressure

**Conditions to avoid:** No known dangerous conditions

**Material to avoid:** glasses and oxides/composites with melting action should not contact the surface of the product

**Hazardous decomposition article:** no known hazardous decomposition product in normal conditions of temperature and pressure

### 11. Toxicological information

Toxicity to Animals: Not available

Chronic Effects on humans: Not available

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### 12. Ecological information

No information available for product

### 13. Disposal considerations

The waste is recyclable or should deposit as building rubbish according to the requirements of environmental protection and waste disposal legislation and any regional authority requirements

If the product will be contaminated during application, the user should examine the nature of the contamination and the waste should be treated accordingly.

### 14. Transport information

Non submit to ADR

No special marking required; Transportable on pallets, in cage on truck

### 15. Regulatory information

The article is not classified as dangerous

Hazard symbol: none

Risk phrases: none

Safety phrases:

S24/25- Avoid contact with skin and eyes

S28- After contact with skin, wash immediately with plenty of water

S35/37/39- Wear suitable protective clothing, gloves and eye/face protection

The data given below are based on present knowledge and experiences and should be considering the safety regulation and it does not guarantee the characteristics.

The changes in the product and the any new knowledge are attended and in accordance the Material Safety Datasheet should be updated continuously.

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### 16. Other Information

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**Table of Occupational Exposure Limit values (in mg/m<sup>3</sup>)**

	ACGIH TWA	ACGIH STEL	OSHA TWA
Zirconium oxide (1314-23-4)	5 (related to zirconium compounds)	10 (related to zirconium compounds)	5 (related to zirconium compounds)
Calcium oxide (1305-78-8)	2		5

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