

MATERIAL SAFETY DATA SHEET
According to (EG) 1907/2006 (REACH)
SILADENT Dr. Böhme & Schöps GmbH



Date of printing: 01.09.2011

reviewed on: 01.01.2010

Zirkon BioStar with shoulder white, colour 500 , 800, 1000, 1333, 2000

Zirkon BioStar K (Block & cylinder) white

Zirkon BioStar S white, colour 500 und colour 1000

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1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Zirkon BioStar with shoulder white, colour 500, 800, 1000, 1333, 2000
Zirkon BioStar K (Block & cylinder) white
Zirkon BioStar S white, colour 500 und colour 1000

Company / Manufacturer: SILADENT Dr. Böhme & Schöps GmbH
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2. Hazards Identification:

Classification: No classification

3. Composition / Information on Ingredients:

Hazardous components:	Zirconium oxide - Hafnium oxide - Yttrium oxide		
Zirconium oxide (ZrO ₂)	88 - 96 %	CAS-Nr. 1314-23-4	EG-Nr. 215-227-2
Hafnium oxide (HfO ₂)	1 - 5 %	CAS-Nr. 12055-23-1	EG-Nr. 235-013-2
Yttrium oxide	4 - 6 %	CAS-Nr. 1314-36-9	EG-Nr. 215-233-5

4. First aid measures:

After contact with the skin: Wash off with soap and water.
After swallowing: Obtain medical attention.

5. Fire Fighting measures:

Suitable extinguishing media: Extinguishing methods depends upon fire in vicinity poses.
The product itself does not burn.

Extinguishing media which must not be used for safety reasons: None known

Special hazards: None known

Special protective equipment for fire fighting: Self-contained breathing apparatus.

6. Accidental release measures:

Personal precautions: safety glasses

Environmental precautions: Observe local bye-laws

Methods for cleaning up: Use mechanical handling equipment.
Fill into labeled, sealable containers.

7. Handling and Storage:

Precautions for safe handling: Avoid dust formation.
Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.
Ensure that the occupational exposure limit value/s (OEL) and/or other limit values are complied with.

Precautions against fire and explosion: No special precautions required.

Storage:

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Conditions of storage rooms and vessels:

Comply with the directives governing water law

Further information for storage:

Store in tightly closed containers in a dry place.

8. Exposure controls / Personal protection:

Respiratory protection:

Respiratory protective device with particle filter EN 143

Hand protection:

Glove material: Butyl-rubber, Natural rubber, Nitrile rubber

The data about break through time/strength of material is not valid for undissolved solids/dust.

Eye protection:

Safety glasses

Body protection:

Protective suit

General protective measures:

Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately.

9. Physical and chemical properties:

Form:

disc, block, cylinder, customer-specific form

Colour:

white or pigmented

Odour:

Odourless

pH:

no data available

Melting point/range:

no data available

Burning number:

1

Method: VDI 2263

Flammability (solid, gas)

not highly flammable

Method: Directive 67/548/EEC Annex V, A.10.

Flammability (contact with water)

not highly flammable

Method: Directive 67/548/EEC Annex V, A.12.

Dust explosibility

no data available

Lower explosion limit:

no data available

Auto-flammability:

not auto-flammable

Method: Directive 67/548/EEC Annex V, A.16.

Density:

2.9 - 3.5 g/cm³

Water solubility:

practically insoluble

10. Stability and Reactivity:

Conditions to avoid:

None known.

Materials to avoid:

None known.

Thermal decomposition:

not applicable

Hazardous decomposition products:

not applicable

11. Toxicological Information:

Acute toxicity:

Skin irritation

rabbit

Yttrium oxide

No skin irritation

Method: No information available.

Acute oral toxicity

LD50 rat > 5,000 mg/kg

Yttrium oxide

Method: No information available.

Eye irritation

Mild eye irritation

Yttrium oxide

Method: No information available.

12. Ecological Information:

No information on ecology is available.

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13. Disposal Considerations:

Product:	The Federal, regional and local rules and regulations governing disposal must be complied with.
Packaging	Packaging that is not contaminated and has been cleaned can be recycled.

14. Transport Information:

Land transport ADR/RID
Not dangerous goods
Air transport ICAO-TI/IATA-DGR
Not dangerous goods
Sea transport IMDG
Not dangerous goods

15. Regulatory Information:

Labelling:	
Labelling according to EC Directives	Directive 1999/45/EC

16. Further Information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.