

Trade name:

Reviewed on 30.10.2014 FB/RH

Printing date 30<sup>th</sup> October 2014

Page 1 of 4

*D RH*

**1 Identification of substance**

Product details:

Trade name: Z-CAD Blanks  
Manufacturer/Supplier: Metoxit AG  
Emdwiesenstrasse 6, CH-8240 Thayngen  
Switzerland  
Tel +41 (0) 52 645 01 01  
Fax +41 (0) 52 645 01 00  
www.metoxit.com  
E-mail: info@metoxit.com

Information in case of emergency: Tel. +41 (0) 52 645 01 01

**2 Composition / Data on components**

Chemical characterization:

CAS No. Description

		CAS – Nr.:	EC – Nr.:
79 – 97 %	Zirconia	1314 – 23 – 4	215 – 222 – 7
3 – 15 %	Yttria	1314 – 36 – 9	215 – 233 – 5
≤ 0.25 %	Alumina	1344 – 28 – 1	215 – 691 – 6
≤ 5 %	Hafnium oxide	12055 – 23 – 1	235 – 013 – 2
≤ 0.5 %	other oxides		

Product: *ceramic solid-state body containing aluminium oxide and zirconium oxide  
Aluminium-anodized attachment*

**Identification number(s):**

**Chemical characterization:**

**Description:** *porous ZrO2 bloc*

**3 Hazard identification**

Hazard description: *not applicable*

**Information concerning to particular hazards to man and environment** *not applicable*

**Classification system:**

*The classification is according to the latest editions of the EU lists, and extended by company and literature data*

**4 First aid measures**

General information: *No special measures required*  
After inhalation: *Supply fresh air, consult doctor in case of complaints*  
After skin contact: *Rinse with warm water*  
After eye contact: *Rinse opened eye for several minutes under running water*  
After swallowing: *If symptoms persist consult doctor*

**5 Fire fighting measures**

Suitable extinguishing agents: *Use fire extinguishing methods suitable to surrounding conditions*  
Protective equipment: *No special measures required*

Trade name:

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Printing date 30<sup>th</sup> October 2014

Page 2 of 4

## 6 Accidental release measures

Person-related safety precautions:

*Not required*

Measures for environmental protection:

*No special measures required*

Measures for cleaning/collecting:

*Pick up mechanically*

Additional information:

*No dangerous substances are released*

## 7 Handling and storage

### Handling

Information for safe handling:

*Ensure good ventilation/exhaustion at the workplace  
Provide suction extractors if dust is formed*

Information about fire- and explosion protection: *No special measures required*

### Storage

Requirements to be met by storerooms and receptacles:

*No special requirements*

Information about storage in one common storage facility:

*No required*

Further information about storage conditions:

*None*

## 8 Exposure controls and personal protection gear

Additional information about design of technical facilities:

*No further data, see item 7*

Ingredients with limit values that require monitoring at the workplace:

*1314-23-4 zirconium dioxide*

*OES Short-term value: 10 mg/m<sup>3</sup>*

*Long-term value: 5 mg/m<sup>3</sup>*

Additional information:

*The lists valid during the making were used as basis*

### Personal protective equipment:

Respiratory protection:

*In case of dust formation use respiration filter*

Protection of hands:

*Not required*

Material of gloves:

*-*

Penetration time of glove material:

*-*

Eye protection:

*Safety glasses*

## 9 Physical and chemical properties

General Information:

Form: *Solid*

Colour: *Whitish*

Odour: *Odourless*

Change in condition:

Melting point / Melting range: *undetermined*

Boiling point / Boiling range: *undetermined*

Trade name:

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Printing date 30<sup>th</sup> October 2014

Page 3 of 4

**Flash point:** *Not applicable*  
**Self-igniting:** *Product is not selfigniting*  
**Danger of explosion:** *product does not present an explosion hazard*  
**Density at 20° C:** *3.0 g/cm<sup>3</sup>*  
**Solubility in / Miscibility with:**

**Water:** *insoluble*  
**Organic solvents:** *0.0 %*

**Solids content:** *100 %*

## 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications*  
**Dangerous reactions:** *No dangerous reactions known*  
**Dangerous decomposition products:** *No dangerous decomposition products known*

## 11 Toxicological information

**Acute toxicity:**  
**Primary irritant effect:**

**on the skin:** *No irritant effect*  
**on the eye:** *No irritating effect*  
**Sensitization:** *No sensitizing effects known*

### **Additional toxicological information:**

*The Product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.*  
*When used and handled according to specification, the product does not have any harmful effects to our experience and the information provided to us*

## 12 Ecological information

**General notes:** *At present there are no ecotoxicological assessments*  
*Do not allow product to reach ground water, water course or sewage system*

## 13 Disposal considerations

**Product:**  
**Recommendation:** *Disposal must be made according to official regulations*  
**Uncleaned packaging:**  
**Recommendation:** *Disposal must be made according to official regulations*

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Page 4 of 4

#### 14 Transport information

**Land transport ADR/RID** (cross-border)  
**ADR/RID class:** -

**Maritime transport IMDG class:** -  
**Marine pollutant:** No

**Air transport ICAO-TI and IATA-DGR:**  
**ICAO/IATA class:** -

#### 15 Regulations

**Labelling according to EU guidelines:**

*Observe the general safety regulations when handling chemicals*

*The substance is not subject to identification regulation under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV)*

**Safety phrases:** 29 Do not empty into drains

**National regulations:**

**Waterhazard class:** undermined

#### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*