

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date: 11.09.2015

Version: 1. 0

Revision: 11.09.2015

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- Trade name: **NACERA® Clean**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** -
- **Application of the substance / the preparation:** Professional application
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier/Manufacturer:**  
DOCERAM Medical Ceramics GmbH  
Heßlingsweg 65-67  
44309 Dortmund  
Germany  
Tel.: +49-231-92 56 68-0  
Fax: +49-231-92 56 68-60
- **Email competent person:** sds@kft.de
- **Information department:** See supplier/manufacturer
- **1.4 Emergency telephone number:**  
National Poison Information Service (NPIS)  
24 hour national number                      professionals only  
0844 892 0111
  
- National Health Service (NHS)  
24 hour national number                      consumer  
England and Scotland: 111  
Wales: 0845 46 47  
Northern Ireland: call your local General Practitioner
  
- Call 999 if there is a life-threatening incident.

#### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

#### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of the substances listed below with nonhazardous additions.
  - **Dangerous components:**
- |   |         |
|---|---------|
| CAS: 1314-23-4      zirconium dioxide                                 | 90-100% |
| EINECS: 215-227-2 substance with a Community workplace exposure limit |         |

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- **Additional information:**

For further components with national limit values which require monitoring at the workplace please see chapter 8.

#### SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:** If symptoms persist or in case of doubt, seek medical advice.

- **After inhalation:** If dust is inhaled, supply fresh air; consult a doctor in case of complaints.

- **After skin contact:** Clean affected skin thoroughly with water and a mild cleansing agent. No residues shall remain on the skin.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

- **After swallowing:**

Rinse mouth with water.

Spit liquid out again.

If symptoms persist, consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed** Local irritation symptoms

- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

#### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

The product is not combustible and does not support any combustion.

Use fire fighting measures suiting the environment.

- **For safety reasons unsuitable extinguishing agents:** High volume water jet

- **5.2 Special hazards arising from the substance or mixture** No specific hazards known.

- **5.3 Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information:** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

- **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

- **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.

Ensure adequate ventilation.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

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- Avoid inhalation of dust.
- **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store at ambient temperatures and under dry conditions.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from feed.
- **Further information about storage conditions:** Store under dry conditions.
- **Storage class:** 13 Non combustible solid
- **7.3 Specific end use(s)** No further relevant information available

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**

#### 1314-23-4 zirconium dioxide

WEL (Great Britain) Short-term value: 10 mg/m<sup>3</sup>  
Long-term value: 5 mg/m<sup>3</sup>  
as Zr

- **CAS No. Designation of material % Type Value Unit**
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**  
Observe general threshold limit for dust.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Do not eat or drink while working.  
Wash hands before breaks and at the end of work.  
Do not inhale dust/smoke/mist.  
Vacuum contaminated clothing. Do not blow or brush off contamination.  
Ensure that washing facilities are available at the work place.
- **Breathing equipment:**  
In case of unintentional release of substance, exceeding the occupational exposure limit value:



In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air.

Short term filter device:  
Filter P2  
Filter P3

- **Protection of hands:**  
Chemical resistant gloves (EN 374)  
For the protection against chemicals in areas with increased risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.
- **Material of gloves:**  
For undissolved solid substances following materials may be suitable:  
nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:**  
The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye protection:**  
Safety glasses  
At formation of dust or insufficient ventilation: Tightly sealed goggles
- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

· <b>9.1 Information on basic physical and chemical properties</b>	
· <b>General Information:</b>	
· <b>Appearance:</b>	
Form:	Powder
Colour:	Blue
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not applicable
· <b>pH-value:</b>	Not applicable
· <b>Change in condition:</b>	
Melting point/Melting range:	~ 2680 °C
Boiling point/Boiling range:	~ 4300 °C
· <b>Flash point:</b>	Not applicable
· <b>Ignition temperature:</b>	
Decomposition temperature:	Not determined
· <b>Self ignition temperature:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Not applicable
Upper:	Not applicable
· <b>Oxidizing properties:</b>	Non-oxidizing
· <b>Density at 20 °C:</b>	5.85 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with</b>	
Water:	Insoluble
· <b>Partition coefficient (n-octanol/water):</b> Not applicable	
· <b>Viscosity:</b>	
dynamic:	Not applicable
kinematic:	Not applicable
· <b>9.2 Other information</b>	Data of chapter 9 refer to the main component. No further relevant information available

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** No further relevant information available

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- **10.6 Hazardous decomposition products:**

No hazardous decomposition products if instructions for storage and handling are followed

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:** No adverse effects known

- **Primary irritant effect:**

- **Skin corrosion/irritation** Prolonged exposition may cause skin irritation.

- **Serious eye damage/irritation** Eye irritation is possible after mechanical influence (dust).

- **Respiratory or skin sensitisation**

A sensitisation may be possible.

(Zirconium and insoluble zirconium compounds Source: TRGS 900 - Germany)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Not relevant

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available

- **12.2 Persistence and degradability** Inorganic product; not removable from water by biological cleaning process

- **12.3 Bioaccumulative potential** No further relevant information available

- **12.4 Mobility in soil** No further relevant information available

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water

According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

- **12.6 Other adverse effects** No further relevant information available

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation:**

Disposal according to instructions of local authorities

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

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#### SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	Not dangerous according to the above regulations
· UN "Model Regulation":	Void

#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- National regulations
- Information about limitation of use:  
Take note of Directive 94/33/EC on the protection of young people at work.  
Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 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.

- Department issuing MSDS:

KFT Chemieservice GmbH  
Im Leuschnerpark. 3 64347 Griesheim  
Postfach 1451 64345 Griesheim  
Germany

Phone: +49 6155 86829-0 Fax: +49 6155 86829-25  
Safety Data Sheet Service: +49 6155 86829-22

- Contact: Angelika Torges

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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