

EC – Safety Data Sheet

YETI GmbH

According to Directive 1907/2006 EC, Article 31

Print Date: September 2, 2019 Vers.1/ revised on December 7th, 2023 Vers.2/replaced on May 17th, 2024 Vers.3

Zirkonblank Geo5 (article numbers see appendix)

Section 1: Identification of the substance/preparation and company

1.1 Trade name: K2 CAD CAM Zirkon Blank (98.5) Geo5
1.2 Use of the substance: Dental sector
Type of use: Production of long-term, fixed dental prostheses
1.3 Supplier / company name: YETI Dentalprodukte GmbH
Street: Industriestraße 3 Postal code: D-78234 Engen
E-mail: sdb@yeti-dental.com
Information on the substance / preparation: Tel. 0 77 33 / 94 10 0 FAX 0 77 33 / 94 10 22
1.4 Emergency information: Tel. 0 77 33 / 94 10 0
(Mon. – Thurs. 8 a.m. – 4.30 p.m., Fri. 8 a.m. – 2 p.m.)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture
Regulation (EC) No. 1272/2008 (CLP) Aquatic Chronic3; H412
Wording of the hazard statements: see section 16

2.2 Label elements

Labeling according to Regulation (EC) No. 1272 / 2008

Hazard statements H412 harmful to aquatic life with long-term effects

Hazard pictograms not required Signal statements not required Safety statements P273 Avoid release to the environment P501 Dispose of contents to an appropriate disposal facility

2.3 Other hazard statements The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII. Direct contact with grinding dust can cause eye and skin irritation. Observe safety instructions when using the substances

Section 3: Composition / Information on ingredients

3.2 Mixtures

Chemical characterization: The product contains: Yttrium zirconium oxide

Hazardous ingredients

CAS No.	Name of substance	Share in %	EC No.	Index No.	REACH No.
Classification (Regulation EC No. 1272/2008)					
12061-16-4	Erbium oxide	< 2	235-045-7		
	Aquatic Acute 1, Aquatic Chronic1, H400, H410				

Specific concentration limits, M factors and ATE

CAS No.	EC No.	Name of substance	Share in %
12061-16-4	235-045-7	Erbium oxide	< 2
		M chron; H410	

Further information: No information is available.

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Section 4: First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing and wash before re-wearing.

In the event of an accident or if you feel unwell, consult a doctor

-After inhalation: Take the person out into the fresh air. If symptoms persist, consult a doctor

-After skin contact: Wash with soap and water. If skin irritation occurs, consult a doctor

-After eye contact: Remove contact lenses. Rinse with water for several minutes. Consult a doctor

-After swallowing: Rinse mouth with plenty of water. Never give anything to an unconscious person.

Do not induce vomiting. Consult a doctor

4.2 Important acute and delayed symptoms and effects

No information is available.

4.3 Indication of any immediate medical attention and special treatment needed

Basic aid, decontamination, symptomatic treatment

Section 5: Firefighting measures

5.1 Suitable extinguishing agents: the product itself does not burn. Extinguishing measures adapt to the environment.

Unsuitable extinguishing agents: No data available

5.2 Special hazards arising from the substance/mixture:

In the event of fire, carbon dioxide/monoxide can be produced

5.3 Advice for firefighters: In the event of fire, wear a breathing apparatus that is independent of the environment

Additional information: Do not allow fire extinguishing water to enter drains and waterways.

Dispose of fire residues and fire extinguishing water according to local regulations.

The material is not explosive and is not flammable in the atmosphere.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General information:

See protective measures and points 7 and 8. For personal protective equipment, see section 8

Ensure adequate ventilation. Do not breathe dust, mist and smoke. Avoid dust formation. If ventilation is inadequate, wear respiratory protection. Avoid contact with skin, eyes and clothing.

Remove non-emergency personnel to safety

Emergency responders: No information available

Not applicable

6.2 Environmental protection measures: Do not allow to enter drains, waterways, subsoil or soil.

6.3 Methods and material for containment and cleaning

CONTAINMENT. Avoid dust formation, collect spilled material mechanically. Collect in suitable, closed containers and dispose of in accordance with official regulations

CLEANING: Clean with detergents. Avoid solvents.

Further information: Provide fresh air

6.4 Reference to other sections

Safe handling: See section 7, Personal protective equipment: See section 8, Disposal: See section 13

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Section 7: Handling and storage

7.1 Protective measures for safe handling. Note on safe handling

-Wear personal protective equipment (see section 8). Keep containers tightly closed. Avoid contact with skin, eyes and clothing. Avoid release into the environment. Immediately remove spilled quantities. Avoid dust formation and deposits. Do not inhale dust. If ventilation is inadequate, wear respiratory protection. If necessary, use selective extraction at critical points.

Note on fire and explosion protection

-No special protective measures required

Note on general hygiene measures in the workplace

-Minimum standards for protective measures when handling work materials are listed in TRGS 500. Contaminated clothing must be washed before reuse. Do not eat, drink or smoke at the workplace. Wash hands thoroughly before breaks and at the end of work. Use skin care products.

7.2 Conditions for safe storage, taking into account any incompatibilities. Requirements for storage rooms and containers

-Only store in the original container. Keep dry and protect from moisture

Notes on storage in one container

-Keep away from food, drinks and animal feed.

Further information on storage conditions

-Avoid frost. Protect from heat and direct sunlight. Handle with care –

Avoid impacts, friction and blows.

Storage class according to TRGS 510

-13 (non-flammable solids that cannot be assigned to any of the LGKs mentioned above)

7.3 Specific end uses: -No data available

Section 8. Exposure controls and personal protection equipment

8.1 Parameters to be monitored / workplace limit values (TRGS 900)

CAS No. Designation mg/m³ peak limitation

- General dust limit value 1.25A

Alveoli common fraction

- General dust limit value 10E 2 (II)

Inhalable fraction

8.2 Limiting and monitoring exposure/suitable technical control devices

Technical ventilation of the workplace

Personal protective equipment Eye/face protection:

-tight-fitting safety goggles with side protection DIN EN 166

Hand protection

-tested chemical protection gloves EN ISO 374 suitable: nitrile/butyl rubber. Ask the manufacturer about breakthrough times

Body protection

-Protective clothing recommended

Respiratory protection

-normally only use respiratory protection if the limit is exceeded and dust is generated. Particle filter device DIN EN 143

Thermal hazards

-no information available

Limitation and monitoring of environmental exposure -see section 7.

No further measures are required

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	solid (rounds)
Colour:	white
Odour:	neutral
Changes in state	
Melting point:	No data available
Boiling point:	No data available
Flash point:	No data available
Ignition temperature:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
Density:	No data available
Solubility in water:	insoluble
Partition coefficientn-octano/water	No data available
Bulk density:	No data available
Relative vapor density	No data available
9.2 Other information/information on physical hazard classes	
Oxidising properties	No data available
Solids content	100%
Evaporation rate	No data available
Further information	No further information is available

Section 10. Stability and reactivity

- 10.1 Reactivity: No dangerous reactions known when used as intended
- 10.2 Chemical stability: The product is chemically stable under the recommended conditions
- 10.3 Possibility of dangerous reactions: No information available
- 10.4 Conditions to avoid: No information available
- 10.5 Incompatible materials: No information available
- 10.6 Hazardous decomposition products: Metal oxides
- Other information: No information available

Section 11. Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism, distribution: No information is available
Acute toxicity: Based on the available data, the classification criteria are not met
Irritation and corrosivity: Based on the available data, the classification criteria are not met
Sensitizing effects: Based on the available data, the classification criteria are not met
Carcinogenic, mutagenic and toxic effects for reproduction
Based on the available data, the classification criteria are not met
Specific target organ toxicity with single exposure
Based on the available data, the classification criteria are not met
Specific target organ toxicity with repeated exposure
Based on the available data, the classification criteria are not met
Aspiration hazard: Based on the available data, the classification criteria are not met. Experience from practice: Dust/mist can cause mechanical irritation if it comes into contact with the eyes.
If inhaled, dust and mist can irritate the respiratory tract.

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Section 12. Environmental information

12.1 Toxicity:	No information available
12.2 Persistence/degradability:	Product/substance is inorganic Zirconium dioxide – water/air high Hafnium dioxide – water/air high
12.3 Bioaccumulative potential:	Zirconium dioxide – low Log Kow=1.429 Hafnium dioxide – low Log Kow=2.229
12.4 Mobility in soil:	Zirconium dioxide – low Koc 23.74 Hafnium dioxide – low Koc 23.74
12.5 PBT/vPvB results	The substances do not meet the criteria according to REACH, Annex XIII
12.6 Endocrine disrupting property	The product does not contain any substance that has endocrine disrupting properties towards non-target organisms.
12.7 Other harmful effects	No ingredient meets the criteria
Further information	No information is available Water hazard class 2

Section 13. Disposal considerations

13.1. Waste treatment methods Recommendation for disposal Disposal in accordance with official regulations. Waste key numbers/waste designations must be carried out in accordance with EAKV sectors and process-specific (AVV 200130). Hazardous waste in accordance with Directive 2008/98/EC (Waste Framework Directive). Disposal of uncleaned packaging and recommended cleaning agents Disposal in accordance with official regulations. Uncontaminated and completely emptied packaging can be recycled.

Section 14. Transport information

Land transport (ADR/RID)	
14.1 UN number	Not a dangerous good in the sense of the transport regulations
Inland waterway transport (ADN)	Not a dangerous good in the sense of the transport regulations
Sea transport (IMDG)	Not a dangerous good in the sense of the transport regulations
Air transport (ICAO)	Not a dangerous good in the sense of the transport regulations
14.5 Environmental hazards	none known
14.6 Precautionary measures for The user:	Not a dangerous good in the sense of the transport regulations
14.7 Transport in bulk	
According to MARPOL-IBC Code	Not a dangerous good in the sense of the transport regulations

Section 15. Legislation

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. EU regulations
Information on the SEVESO III Directive 2012/18/EU is not subject to the SEVESO III Directive
Additional information: Safety data sheet in accordance with Regulation (EC) No. 1907/2006 REACH
Classification in accordance with Regulation (EC) No. 1272/2008 [CLP]
Directive (EU) 2018/851 of the European Parliament and of the
Council of 30 May 2018 amending Directive 2008/98/EC on waste. Directive 2008/98/EC of the
European Parliament and of the Council of 19 November 2008 on waste and repealing certain
directives.

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National regulations 2-significantly hazardous to water

Status Classification of mixtures according to Annex 1, No. 5 AwSV

Additional information DE: Hazardous Substances Ordinance on the handling of substances hazardous to water (AwSV). DGUV information 213-850 / 213-730

15.2 Chemical safety assessment A chemical safety assessment has not been carried out

Section 16. Other information

Abbreviations and acronyms:

CAS Chemical Abstracts Service

GHS Globally Harmonized System of Classification and Labelling of Chemicals" "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

CLP Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures

IATA International Air Transport Association

IATA-DGR International Air Transport Association-Dangerous Goods Regulations

ICAO International Civil Aviation Organization

ICAO-TI International Civil Aviation Organization-Technical Instructions

IMDG Code International Maritime Code for Dangerous Goods

LC50 Lethal Concentration, 50 percent

LD50 Lethal Doses, 50 percent

EC50 mean effective concentration

DNEL Derived No-Effect Level

PNEC Predicted No-Effect Concentration

PBT Persistent, bioaccumulative, toxic

vPvB very persistent and very bioaccumulative

RID Regulations concerning the international transport of dangerous goods by rail

Wording of H and EUH statements (number and full text)

H400 very toxic to aquatic life

H410 very toxic to aquatic life with long lasting effects

H412 harmful to aquatic life with long lasting effects

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The information in this safety data sheet corresponds to our current state of knowledge and complies with the national and EC legislation in force at the time. However, all statements, recommendations or suggestions contain an express or implicit guarantee or warranty on our part. We therefore do not guarantee the accuracy and completeness of this document and disclaim any liability in connection with the use of this information or the products listed therein. The user's stated working conditions are beyond our knowledge and control. The product must not be used for any purpose other than that stated in section 1 without written permission. The user is responsible for complying with all necessary legal provisions and acts at his own risk. Information may change without notice.

The information in this safety data sheet describes the safety requirements of our product, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship.

appendix (article)

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