



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 1 of 7

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

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid  
Article No: 397-5001 / -5002 / -5003 / -5004 / -5007 / -5011 / -5014 / -5017 / -5019  
Relevant identified uses: Liquid product for the dyeing of pre-sintered zirconium dioxide blocks

### Manufacturer / supplier:

Company name: YETI Dentalprodukte GmbH  
Street: Industriestrasse 3  
Place: D-78234 Engen  
Telephone: +49 7733-9410-0  
Telefax: +49 7733-9410-22  
Responsible for the safety data sheet: sdb@yeti-dental.com  
Responsible Department: YETI Dental

**Emergency telephone number:** +49 7733-9410-0 (Mo-Do 8:00 - 16:30, Fr 8:00 - 15:00)

## SECTION 2: Hazard identification

Safety information according to GHS (Regulation (EC) no. 1272/2008)  
Hazard statement(s): H319: Causes serious eye irritation  
Precautionary statement(s): P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
Signal word: Caution

Hazard symbols:





# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 2 of 7

Storage class: 10 - 13 Other liquids and solids  
Safety information (67/548 EEC or 1999/45 EC labelling)  
R-phrase R 36: Irritating to eyes.  
S-phrase S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Categories of danger: Irritant  
Hazard symbol: Irritant



## Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

## SECTION 3: Composition / information on ingredients

Hazardous ingredients and additional information: For hazard information, see section 2.

CAS	Chemical compound	Component
7782-61-8	Iron(III) nitrate nonahydrate	1-10%
10031-51-3	Erbium (III) nitrate pentahydrate	1-30%
20694-39-7	Manganese (II) nitrate tetrahydrate	1-5%
7784-27-2	Aluminium nitrate nonahydrate	1-5%
5949-29-1	Citric acid monohydrate	1%
n/a	Food Colouring	1%
7732-18-5	Water	balance

## SECTION 4: First aid measures

After inhaling: Fresh air  
After skin contact: Wash immediately with plenty of water. Remove contaminated clothing.  
After eye contact: Rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
After ingestion: Drink water (max. 2 glasses), consult doctor immediately.



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 3 of 7

---

## SECTION 5: Fire fighting measures

Suitable extinguishing media: Water, carbon dioxide CO<sub>2</sub>, extinguishing or alcohol resistant foam Extinguishing media which must not be used for safety reasons: There are no restrictions as regards extinguishing media for this substance/product.

Special hazards in connection with fire: Risk of hazardous combustion gases or vapours if Substance/product is on fire.

Fire fighting statements: In the event of fire, wear self-contained breathing apparatus.

---

## SECTION 6: Accidental release measures

Environmental precautions: Do not allow to enter into drains.

Personal protective equipment: See section 8

Suitable methods and materials for retention and cleaning up: Seal drains, collect product, contain in defined area and pump off. Observe possible restrictions re. materials! See sections 7 and 10 Avoid generation of dust.

Disposal information: See section 13

## SECTION 7: Handling and storage

Advices on safe handling: Observe handling instructions on label.

Advice on safe storage: Do not store in metal containers. Keep product dry and store in tightly sealed containers.

Storage temperature: Room temperature

Specific end use(s): As specified in section 1. No other uses.



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 4 of 7

---

## SECTION 8: Exposure controls / personal protection

Parameters to be monitored:	Does not contain ingredients with defined occupational exposure limits
Exposure controls:	See section 7
General health and safety measures:	Remove contaminated clothing immediately. Wash hands and face before breaks and after work.
Eye protection:	Protective goggles
Hand protection for full or splash contact:	Nitrile rubber gloves, 0.11mm thick, breakthrough time >480 minutes
Respiratory protection:	Required in the event of dust.

---

## SECTION 9: Physical and chemical properties

Ignition temperature:	540 °C (anhydrous substance)
Solubility in water:	1630 g/l (20 °C)
Melting range:	135 - 152 °C
Molecular weight:	210.14 g/mol
Density:	1.54 g/cm <sup>3</sup> (20 °C)
Bulk density:	800 - 1000 kg/m <sup>3</sup>
pH:	0.8 (50 g/l, H <sub>2</sub> O, 25 °C)
Vapour pressure:	< - 0.1 hPa (20 °C)
Explosion limit:	8.0 %(v/v)



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 5 of 7

---

## SECTION 10: Stability and reactivity

Reactivity: See "Risk of dangerous reactions".  
Chemical stability: Release of water of crystallisation upon heating.  
Risk of dangerous reactions: Risk of reaction with metals oxidants, bases and reducing agents.  
Conditions to avoid: No information available  
Materials to avoid: No information available  
Hazardous decomposition products: No information available

## SECTION 11: Toxicological information

Acute oral toxicity: LD50 rat 2000 mg/kg  
Primary irritation to the skin: No irritation, OECD 404  
Primary irritation to the eyes: Acute irritation, OECD 405

## SECTION 12: Environmental precautions

Water hazard classification (WGK): WGK1, slightly hazardous to water

## SECTION 13: Disposal considerations

Disposal: 3, liquid organic reagents that are barely reactive are classified in category A. If they contain halogens, they are classified in category B. Solid residue: Category C (according to European Waste Framework Directive 2008/98/EC)

## SECTION 14: Transport information

Road and rail transport ADR/RID: No dangerous good  
Sea transport - IMDG: No dangerous good  
Air transport - IATA-DGR: No dangerous good



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 6 of 7

## SECTION 15: Regulatory information

Regulations regarding health and safety, and environmental protection / specific statutory  
Regulations for substance/product: See sections 10 to 13

## SECTION 16: Other information

The data in this data sheet is based on our present knowledge and provides information regarding the product and necessary safety precautions. This information shall not constitute a guarantee for specific product properties.

### Internet

<sup>1</sup><http://www.baua.de>

<sup>2</sup><http://publikationen.dguv.de>

<sup>3</sup><http://gestis.itrust.de>

<sup>4</sup><http://logkow.cristi.nrc.ca>

<sup>5</sup><http://www.gischem.de>

<sup>6</sup><http://echa.europa.eu/en/candidate-list-table>

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)



# Material safety data sheet

accordance with 1907/2006/EC, article 31

Trade name: Dip & Brush K2 CAD CAM Zirkon Liquid ( different Color )  
Print date: 30.01.2017  
Version: 1.1  
Revision: 30.01.2017

Page 7 of 7

---

## Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

## Relevant H and EUH statements (number and full text)

H319 Causes serious eye irritation