

**SAFETY DATA SHEET (GHS)**

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER****1.1 Product identifier:-**

**Product name:** IPS e.max ZirCAD (BlockDisc)  
**Product number:** Void

**1.2 Other means of identification:-**

Not applicable.

**1.3 Recommended use of the chemical and restrictions on use:-**

Not applicable.

**Identified uses:**

Manufacture of dental prosthesis  
 Yttrium-stabilized zirconium oxide block for the CAD/CAM technology  
 Yttrium-stabilized zirconium oxide disc for the CAD/CAM technology

**1.4 Details of the manufacturer and importer:-****Manufacturer:**

Ivoclar Vivadent AG  
 Bendererstrasse 2  
 FL-9494 Schaan  
 PRINCIPALITY OF LIECHTENSTEIN  
 Tel: +423 235 35 35  
 Fax: +423 235 33 60

**Importer:**

Ivoclar Vivadent Pty Ltd  
 1- 5 Overseas Drive Noble Park North VIC 3174  
 Tel: + 61 3 9795 9599 Fax: + 61 3 9795 9645  
 Email: [info@ivoclarvivadent.com](mailto:info@ivoclarvivadent.com)

**1.5 Emergency phone number:**

13 11 26  
 Poisons Hotline (24 hours / 7 days)

**2. HAZARD(S) IDENTIFICATION****2.1 GHS Classification:-**

Void

**2.2 GHS Label elements, including precautionary statements:-**

**Hazard Pictogram:** Void

**Signal word:** Void

**Hazard-determining components of labelling:** Void

**Hazard statements:** Void

**Precautionary statements:** Void

**2.3 Additional information:****Other hazards:-**

Avoid breathing sanding dust /swarf

**Results of PBT and vPvB assessment;**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of substances listed below with nonhazardous additions.

Ingredient name	CAS No.	Classification	Concentration
ceramic materials	66402-68-4		

For the full text of the H-Statements mentioned in this Section, refer to Section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of necessary first aid measures:-

**If inhaled:**

Grinding dust: Supply fresh air; consult doctor in case of complaints.

**In case of skin contact:**

Generally the product does not irritate the skin.

**In case of eye contact:**

Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
Mechanical effects only.

**If swallowed:**

Grinding dust: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor

#### 4.2 Symptoms caused by exposure:-

No further relevant information available

#### 4.3 Medical attention and special treatment:-

No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing equipment:-

**Suitable extinguishing media:**

The product is not flammable

**Unsuitable extinguishing media:**

No further relevant information available.

#### 5.2 Specific hazards arising from the substance/mixture/product:-

No further relevant information available.

#### 5.3 Special protective equipment and precautions for fire fighters:-

**Special personal protective equipment:**

No further relevant information available

**Precautions:**

No further relevant information available

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:-

Particular danger of slipping on leaked/spilled product

#### 6.2 Environmental precautions:-

Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and materials for containment and cleaning up:-

Pick up mechanically.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:-

Only adequately trained personnel should handle this product.

For use in dentistry only.

#### 7.2 Conditions for safe storage, including any incompatibilities:-

Store only in the original receptacle.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Exposure control measures:-

**Occupational exposure limits:**

Component	CAS No.	Value	Parameters	Basis
glycerol	56-81-5	Long-term value: 10 mg/m <sup>3</sup>		

**Ingredients with biological limit values:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Biological monitoring:-**

The lists valid during the making were used as basis.

**Exposure controls / Personal protective equipment / General protective and hygienic measures:**

Usual hygienic measures for dental practice and dental laboratories.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

**8.3 Control banding:-**

Use good industrial hygiene practice and general ventilation.

**8.4 Engineering controls:-**

Void

**8.5 Individual protection measures include PPE:-**

**Eye/face protection:**



**Safety glasses**

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling). Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.

**Skin protection:**



**Protection of hands:**

Protective gloves should always be worn during mechanical and thermal processing. After use of gloves apply skin-cleaning agents and skin cosmetics.

**• Material of gloves**

Mechanical processing:

Leather gloves

Strong material gloves

**• Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Respiratory protection:**



Mechanical processing: Use respiratory protective device against the effects of dust.

**• Recommended filter device for short term use:** Filter P1

**9. PHYSICAL/CHEMICAL PROPERTIES**

**9.1 Information on physical/chemical properties:-**

a) <b>Appearance/Form:</b>	Solid
b) <b>Colour:</b>	According to product specification
c) <b>Odour:</b>	Odourless
d) <b>Odour threshold:</b>	Not determined.
e) <b>pH value:</b>	Not applicable.
f) <b>Melting point/melting range:</b>	Not determined.
g) <b>Boiling point/boiling range:</b>	Not applicable.
h) <b>Flash point:</b>	Not determined.
i) <b>Ignition temperature:</b>	Not determined.
j) <b>Self-igniting:</b>	Product is not self-igniting.
k) <b>Danger of explosion:</b>	Not determined.
l) <b>Upper/lower flammability or explosive limits:</b>	Lower   Not determined. Upper   Not determined.
m) <b>Vapour pressure 20°C:</b>	Not determined.
n) <b>Density at 20°C:</b>	Not applicable.
o) <b>Relative density:</b>	Not determined.
p) <b>Vapour density:</b>	Not applicable.
q) <b>Evaporation rate:</b>	Not applicable.
r) <b>Solubility in/miscibility with water:</b>	Insoluble.
s) <b>Partition coefficient: n- octanol/water:</b>	Not determined.
t) <b>Viscosity:</b>	Dynamic   Not applicable. Kinematic   Not applicable.
u) <b>Solids content:</b>	Not determined.

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity:-**

No further relevant information available.

**10.2 Chemical stability:-**

Stable under normal handling and storage conditions.

**Thermal decomposition / conditions to be avoided:**

No decomposition if used 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.

**10.6 Hazardous decomposition products:-**

None under normal conditions of storage and use.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:-**

**Acute toxicity / Values relevant for classification:**

**Skin corrosion/irritation:**

No further relevant information available.

**Serious eye damage/eye irritation:**

No further relevant information available.

**Respiratory or skin sensitization:**

No further relevant information available.

**Germ cell mutagenicity:**

No further relevant information available.

**Carcinogenicity:**

No further relevant information available.

**Reproductive toxicity:**

No further relevant information available.

**Specific target organ toxicity - single exposure:**

No further relevant information available.

**Specific target organ toxicity - repeated**

No further relevant information available.

<b>exposure:</b>	No further relevant information available.
<b>Aspiration hazard:</b>	No further relevant information available.
<b>Additional information:</b>	No further relevant information available.

**11.2 Information on possible routes of exposure:-**

<b>Short Term (Acute) Exposure:</b>	No further relevant information available.
<b>Swallowed:</b>	No further relevant information available.
<b>Eyes:</b>	No further relevant information available.
<b>Skin:</b>	No further relevant information available.
<b>Inhaled:</b>	No further relevant information available.
<b>Long Term (Chronic) Exposure:</b>	No further relevant information available.
<b>Swallowed:</b>	No further relevant information available.
<b>Eyes:</b>	No further relevant information available.
<b>Skin:</b>	No further relevant information available.
<b>Inhaled:</b>	No further relevant information available.

**11.3 Early onset symptoms related to exposure:-** No further relevant information available.

**11.4 Delayed health effects from exposure:-** No further relevant information available.

**11.5 Exposure levels and health effects:-** No further relevant information available.

**11.6 Interactive effects:-** No further relevant information available.

**11.7 Other:-** No further relevant information available.

**12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity:-**  
No further relevant information available.

**12.2 Persistence/degradability:-**  
No further relevant information available.

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

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

**12.5 Other adverse effects:-**  
No further relevant information available.

**Additional ecological information / General notes:-**

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

**12.6 Other adverse effects:-**  
Generally not hazardous for water

**13. DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods:-**  
Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

Uncleaned packaging:  
· Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORT INFORMATION**

<b>UN number ADR / IMDG / IATA:-</b>	Void.
<b>UN proper shipping name or technical name:-</b>	Void.
<b>ADR:</b>	Void.
<b>IMDG, IATA:</b>	Void.
<b>Transport hazard class(es):</b>	Void.
<b>Label:</b>	Void.

<b>Packaging group:</b>	Void.
<b>Environmental hazards:</b>	Not applicable.
<b>Special precautions for user:</b>	Not applicable.
<b>Danger code:</b>	Void.
<b>EMS Number:</b>	Void.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
<b>Transport/Additional information:</b>	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-

The product is a medical device according to the Directive 93/42/EEC.

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

**Key to abbreviations/acronyms used in SDS:-** | Void

**Key literature references/data sources used to compile SDS:-**

Void

### Copyright statement:-

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.

### 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).

IMDG: International Maritime Code for Dangerous Goods.

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.

Flam. Liq. 2: Flammable liquids, Hazard Category 2.

Flam. Liq. 3: Flammable liquids, Hazard Category 3.

Acute Tox. 4: Acute toxicity, Hazard Category 4.

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2.

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2.

Repr. 2: Reproductive toxicity, Hazard Category 2.

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3.

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2.

Asp. Tox. 1: Aspiration hazard, Hazard Category 1.

**\* Data compared to the previous version altered**

### Disclaimer:-

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