

Material Safety Data Sheet

according to NOHSC:2011(2003)



Product name : Ivoclar Vivadent IPS eMax ZirCad
Statement of Hazardous Nature : This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.
Revision : 10.09.2009 **Version :** 1.0.0
Print date : 10.09.2009

01. Identification of substance, preparation and company

Product name : Ivoclar Vivadent IPS eMax ZirCad
Use of the substance / preparation : Ceramic - CAD/CAM Technology
Manufacturer/Supplier : Ivoclar Vivadent AG
Street/P.O.Box : Bendererstrasse 2, FL -9494 Schaan
Country code/Postal code/Town/City : Fürstentum Liechtenstein
Telephone : +(716) 691-0010
Telefax : +423 / 235 35 35 or 373 40 40
Distributor : Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174
Phone No.: +61-3 9795 9599, Tele fax No.: +61-3 9795 9645
Emergency information : Poisons Information Centre: Dial 13 11 26
24 hours a day, 7 days a week Australia wide

02. Hazards identification

Statement of Hazardous Nature

This product is not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission.
Non-Dangerous Goods according to ADG.

Hazard designation

Classification : Not classified
ADG Classification: not classified
UN Number: not classified

Particular information pertaining specific risk for human and environment

None, if handled according to order.

03. Composition/information on ingredients

Ceramic blocks made of:
> 87 % ZrO₂, Y₂O₃, HfO₂, Al₂O₃

Hazardous components

Avoid breathing of grinding dust and vapor.

Other ingredients determined not be hazardous

Non hazardous ingredients

04. First-aid measures

General

Immediately remove all contaminated clothing.

After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

After skin contact

Flush with plenty of water. Melted material presents a special hazard of deep thermal burns. If burn occurs, treat as any thermal burn

After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

After ingestion

Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.

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05. Fire-fighting measures

Suitable extinguishing media

Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media

Waterjet. Do not use direct water stream.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

While burning it produces carbon dioxide and carbon monoxide

Special protective equipment

When extinguishing fires, use breathing apparatus with an independent source of air.

06. Accidental release measures

Personal precautions

Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions

Prevent from flowing into surface water/ground water.

Methods for cleaning up/collecting

Take up with a mechanical source and proceed according to the waste disposal regulations.

Additional information

Remove according to regulations.

07. Handling and storage

Information for safe handling

Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children.

Information about protection against explosions and fires

No anti-explosion measures necessary.

Requirements to be met by storerooms and containers

Keep only in the original container. No specific storage requirements.

Information about separation of incompatible products

Store the foodstuffs separately.

08. Exposure controls and personal protection

Additional information about engineering measures

No particular measures required. Technical measures Provide adequate local ventilation. Control airborne concentration below the exposure guideline.

Control of threshold limits:Grinding dust: Producer Industry recommends an exposure limit of 1.5 mg/m³.

Components with critical values that require monitoring at the workplace (exposure limits)

Dust and Vapours

Specification : TWA (AUS)

Value : MAK 0.0 mg/m³

Personal protective equipment

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff.. Avoid contact with skin and eyes. Respiratory protection In dusty atmospheres, use an approved dust respirator P2. If metal fumes are present, use an approved high-efficiency particulate respirator (P3).

Respiratory protection

Provide for good ventilation.

Hand protection

Short-term exposure (< 30 min): disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

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Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Eye protection

Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337).

Body protection

No particular measures required.

09. Physical and chemical properties

Image

Form : Ingot
Colour : white
Odour : odourless

Relevant safety data

Melting point / range :	(1013 hPa)		not applicable	°C	
Casting point / range :	(1013 hPa)	ca.	not applicable	°C	
Flash point :			> 200 °C	°C	DIN 51755
Ignition temperature :			not applicable	°C	
Lower explosion limit :			not applicable	% b.v.	
Upper explosion limit :			not applicable	% b.v.	
Density :	(20 °C)		not applicable	g/cm ³	
Solubility in water :	(20 °C)		not miscible	% b.w.	
pH value :			not applicable		

10. Stability and reactivity

Conditions to avoid

None, if handled according to order.

Materials to avoid

None known.

Hazardous decomposition products

None if used in accordance with instructions.

11. Toxicological information

Toxicological tests

non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer

Primary irritant effect

Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation

Sensitization

No data available.

Experience on practice

Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

12. Ecological information

No ecological problems to be anticipated if properly handled and used. nearly insoluble

Details on elimination (persistence / degradability)

Abiotal elimination

No data available.

Biological degradation / elimination

No data available.

Fate in environmental compartments

There are no data available on the preparation itself.

Ecotoxic effects

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Performance in sewage-treatment plants
No data available.

13. Disposal considerations

Product EU waste key 08 02 99

Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.

Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Un cleaned packaging must be disposed of in the same manner as the medium.

14. Transport information

Land transport ADG

Classification

Class : - ADR RID

Maritime transport IMDG

Classification

IMDG-Code : - EMS UN
Number
Packing
Group MFAG
Proper
shipping
name ADNDR

Air transport ICAO-TI and IATA-DGR

Classification

Class : - ICAO / IATA-DGR
UN ICAO / IATA-DGR
Proper shipping name
UN Number

15. Regulatory information

Classification This product does not require classification according to the criteria of the EC. The product is a medical device according to the EC-directive 93/42

Danger symbol and danger designation



Not required.

Hazard-determining components of labelling

None : MAK value 0.0 mg/m³ ml/m³ (ppm)

R-phrases

43 May cause sensitisation by skin contact.
36/37/38 Irritating to eyes, respiratory system and skin.

S-phrases

37/39 Wear suitable gloves and eye/face protection.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

16. Other information

Processing instructions / technical data sheets

Please observe the label/directions for use!

Further information

This is a medical device classified under the requirements of EU and TGA . Complies with ISO 8891, ISO 9693

Contact

Dr. Peter Lobo

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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.