

Material Safety Data Sheet

according to NOHSC:2011(2003)



Product name : Ivoclar Vivadent IPS Empress Esthetic Speed Investing
Statement of Hazardous Nature : Material, Powder
This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.
Revision : 10.11.2009 **Version :** 1.0.0
Print date : 10.11.2009

01. Identification of substance, preparation and company

Product name : Ivoclar Vivadent IPS Empress Esthetic Speed Investing Material, Powder

Use of the substance / preparation : Investment Material for the layering technique

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

Chemical characterization Powder of silicondioxide (quartz powder), magnesium oxide and ammonium phosphate

Hazardous components

CAS No. 14808-60-7 50-100 % Silicondioxide (quartz powder)
CAS No. 14464-46-1 10-25 % Crystalline Silica -Cristobalite

Dust generation. Avoid breathing dust. Risk of lung damage (silicosis).

Other ingredients determined not be hazardous

Non hazardous ingredients

04. First-aid measures

General

After inhalation

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

After skin contact

Flush with plenty of water.

After eye contact

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

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After ingestion

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

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. Store at 12-28 °C . Store in a dry place

Information about separation of incompatible products

Store the foodstuffs separately. Sensitive to cold below < 2 °C

08. Exposure controls and personal protection

Quartz dust: Producer Industry recommends an exposure limit of

0.1 mg/m³. MAK (Maximale Arbeitsplatzkonzentration, Germany) is 0.15 mg/m³. Threshold Limit Value (TLV) is 0.1 mg/m³.

Additional information about engineering measures

No particular measures required. Technical measures Provide adequate local ventilation.

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

Dust and Vapours Vapour pressure not applicable (20°C)

Specification : TWA (AUS)

Value : MAK 0.15 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).

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Respiratory protection

Provide for good ventilation. Respiratory protection Respiratory Protection. Avoid inhalation of dust while grinding. In dusty atmospheres, use an approved dust respirator

Hand protection

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

Relevant safety data

Melting point / range :	(1013 hPa)		not applicable	°C
Casting point / range :	(1013 hPa)	ca.	not applicable	°C
Flash point :			not applicable	°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)		3	g/cm ³
Solubility in water :	(20 °C)		Not known	% b.v.
pH value :				

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

Inhalation of dust. Pay attention to the dust exposure limit.
Investing Material: Orale LD-50 / Ratte: > 10'000 mg/kg.

Primary irritant effect

There is a risk of lung damage (silicosis) after inhalation.

Sensitization

No data available.

Experience on practice

Excessive exposure may cause eye and respiratory irritation.

12. Ecological information

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

Details on elimination (persistence / degradability)

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Abiotoxic elimination

No data available.

Biotoxic degradation / elimination

No data available.

Fate in environmental compartments

There are no data available on the preparation itself.

Ecotoxicological effects

Performance in sewage-treatment plants

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

13. Disposal considerations

Product EU waste key 20 03 01

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 Product is not classified for any mode of transportation

Land transport ADG

Classification

Class : - ADR RID

Maritime transport IMDG

Classification

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

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



Xn: Harmful. Contains Silicodioxide (quartz powder), Crystalline Silica -Cristobalite.

Hazard-determining components of labelling

None : MAK value 0.15 mg/m³ ml/m³ (ppm)

R-phrases

48/20 Harmful : danger of serious damage to health by prolonged exposure through inhalation.

S-phrases

22 . Do not breathe dust.

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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

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.