

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

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

- **1.1 Product identifier**
- **Trade name:** *IPS Empress Esthetic Speed Powder*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Auxiliary for dental technology
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Ivoclar Vivadent AG
Bendererstrasse 2
FL-9494 Schaan
PRINCIPALITY OF LIECHTENSTEIN
- Tel: +423 235 35 35
Fax: +423 235 33 60
- **Further information obtainable from:**
Regulatory Affairs
sds@ivoclarvivadent.com
- **1.4 Emergency telephone number:** +423 / 235 33 13 (Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Danger

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

Quartz (SiO₂)

cristobalite

- **Hazard statements**

H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

- **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P314 Get medical advice/attention if you feel unwell.

- **2.3 Other hazards** Risk of lung damage (silicosis).

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

GB

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

Trade name: IPS Empress Esthetic Speed Powder

(Contd. of page 1)

*	SECTION 3: Composition/information on ingredients															
<ul style="list-style-type: none"> · 3.2 Chemical characterisation: Mixtures · Description: Mixture of substances listed below with nonhazardous additions. 																
<ul style="list-style-type: none"> · Dangerous components: 																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">CAS: 14808-60-7 EINECS: 238-878-4</td><td style="width: 20%;">Quartz (SiO₂)</td><td style="width: 40%;">STOT RE 1, H372</td><td style="width: 20%;">50-100%</td></tr> <tr> <td>CAS: 1309-48-4 EINECS: 215-171-9</td><td>magnesium oxide</td><td>substance with a Community workplace exposure limit</td><td>10-<25%</td></tr> <tr> <td>CAS: 14464-46-1 EINECS: 238-455-4</td><td>cristobalite</td><td>STOT RE 1, H372</td><td>10-<25%</td></tr> </table>					CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	STOT RE 1, H372	50-100%	CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide	substance with a Community workplace exposure limit	10-<25%	CAS: 14464-46-1 EINECS: 238-455-4	cristobalite	STOT RE 1, H372	10-<25%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	STOT RE 1, H372	50-100%													
CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide	substance with a Community workplace exposure limit	10-<25%													
CAS: 14464-46-1 EINECS: 238-455-4	cristobalite	STOT RE 1, H372	10-<25%													
<ul style="list-style-type: none"> · Additional information: For the wording of the listed risk phrases refer to section 16. 																

	SECTION 4: First aid measures
	<ul style="list-style-type: none"> · 4.1 Description of first aid measures · After inhalation: Supply fresh air. Seek medical treatment in case of complaints. · After skin contact: Rinse with water. Generally the product does not irritate the skin. · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor. · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

	SECTION 5: Firefighting measures
	<ul style="list-style-type: none"> · 5.1 Extinguishing media · Suitable extinguishing agents: The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions. · 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NO_x) Ammonia · 5.3 Advice for firefighters · Protective equipment: No special measures required.

	SECTION 6: Accidental release measures
	<ul style="list-style-type: none"> · 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Ensure adequate ventilation. Use respiratory protective device against the effects of fumes/dust/aerosol. · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
	(Contd. on page 3) GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

Trade name: IPS Empress Esthetic Speed Powder

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Only adequately trained personnel should handle this product.

For use in dentistry only.

Ensure that suitable extractors are available on processing machines

Prevent formation of dust.

- **Information about fire - and explosion protection:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in dry conditions.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

1309-48-4 magnesium oxide

WEL	Long-term value: 10* 4** mg/m ³
-----	--

(as Mg) *inhalable dust **fume and respirable dust

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Usual hygienic measures for dental practice.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter P2

Filter P3

- **Protection of hands:** Not required.

- **Material of gloves -**

- **Penetration time of glove material -**

- **Eye protection:** Safety glasses

GB

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

Trade name: IPS Empress Esthetic Speed Powder

(Contd. of page 3)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Powder

Colour: Light blue

· Odour:

Odourless

· Odour threshold:

Not determined.

· pH-value (10 g/l) at 20 °C: ~ 6

· Change in condition

Melting point/Melting range: > 1400 °C

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not applicable.

· Density: Not determined.

· Bulk density at 20 °C: 1100 - 1200 kg/m³

· Relative density

Not determined.

· Vapour density

Not applicable.

· Evaporation rate

Not applicable.

· Solubility in / Miscibility with water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

· 9.2 Other information

No further relevant information available.

SECTION 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.

GB

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

Trade name: IPS Empress Esthetic Speed Powder

(Contd. of page 4)

*	<p>SECTION 11: Toxicological information</p> <ul style="list-style-type: none"> · 11.1 Information on toxicological effects · Acute toxicity: · Primary irritant effect: · on the skin: No irritant effect. · on the eye: No irritating effect. · Sensitisation: No sensitising effects known. · Additional toxicological information: No further relevant information available. 										
	<p>SECTION 12: Ecological information</p> <ul style="list-style-type: none"> · 12.1 Toxicity · Aquatic toxicity: No further relevant information available. · 12.2 Persistence and 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. · Additional ecological information: · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. · 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · 12.6 Other adverse effects No further relevant information available. 										
	<p>SECTION 13: Disposal considerations</p> <ul style="list-style-type: none"> · 13.1 Waste treatment methods · Recommendation Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority. · European waste catalogue 16 03 03* inorganic wastes containing dangerous substances · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. 										
	<p>SECTION 14: Transport information</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; vertical-align: top;">· 14.1 UN-Number</td> <td style="width: 70%; vertical-align: top;">· ADR, ADN, IMDG, IATA Void</td> </tr> <tr> <td>· 14.2 UN proper shipping name</td> <td>· ADR, ADN, IMDG, IATA Void</td> </tr> <tr> <td>· 14.3 Transport hazard class(es)</td> <td>· ADR, ADN, IMDG, IATA</td> </tr> <tr> <td>· Class</td> <td>· Void</td> </tr> <tr> <td>· 14.4 Packing group</td> <td>· ADR, IMDG, IATA Void</td> </tr> </table>	· 14.1 UN-Number	· ADR, ADN, IMDG, IATA Void	· 14.2 UN proper shipping name	· ADR, ADN, IMDG, IATA Void	· 14.3 Transport hazard class(es)	· ADR, ADN, IMDG, IATA	· Class	· Void	· 14.4 Packing group	· ADR, IMDG, IATA Void
· 14.1 UN-Number	· ADR, ADN, IMDG, IATA Void										
· 14.2 UN proper shipping name	· ADR, ADN, IMDG, IATA Void										
· 14.3 Transport hazard class(es)	· ADR, ADN, IMDG, IATA										
· Class	· Void										
· 14.4 Packing group	· ADR, IMDG, IATA Void										

(Contd. on page 6)
GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 22.05.2015

Version number 5

Revision: 21.04.2015

Trade name: IPS Empress Esthetic Speed Powder

(Contd. of page 5)

· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

- Relevant phrases**
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.
- 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)
 - STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
- * Data compared to the previous version altered.**

GB