

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 Empress Esthetic Speed Powder**
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: | Auxiliary for dental 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 Ltd
 12 Omega St, Rosedale, Auckland, New Zealand
 Phone +64 9 914 9999 Fax +64 9 914 9990
 www.ivoclarvivadent.co.nz
 0800 764 766 (National Poison Centre)
 Poisons Hotline (24 hours / 7 days)

1.5 Emergency phone number:**2. HAZARD(S) IDENTIFICATION****2.1 GHS Classification:-**

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

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

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 Additional information:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body, are exempted from the provisions of Regulation (EC) No 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

Other hazards:-

Risk of lung damage (silicosis).

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
Quartz (SiO ₂)	14808-60-7	STOT RE 1, H372	50-100%
magnesium oxide	1309-48-4	substance with a Community workplace exposure limit	10-<25%
crystalite	14464-46-1	STOT RE 1, H372	10-<25%

4. FIRST AID MEASURES**4.1 Description of necessary first aid measures:-****If inhaled:**

Supply fresh air; consult doctor in case of complaints.

In case of skin contact:

Rinse with water.

In case of eye contact:

Generally the product does not irritate the skin.

Rinse opened eye for several minutes under running water.

If swallowed:

If symptoms persist, consult a doctor

Rinse out mouth and then drink plenty of water.

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. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media:

No further relevant information available.

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

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Ammonia

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:-**

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

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.

Ensure that suitable extractors are available on processing machines
Prevent formation of dust.

7.2 Conditions for safe storage, including any incompatibilities:-

Store only in the original receptacle.
Store in dry conditions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure control measures:-

Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis
magnesium oxide	1309-48-4	Long-term value: 10* 4** mg/m ³ (as Mg) *inhalable dust **fume and respirable dust	Void	Void

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.

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.

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

Required Use tightly fitting safety glasses as per Australian Standard AS 1336 and AS/NZS 1337.

Skin protection:



Not required

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

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on physical/chemical properties:-

a) Appearance/Form:	Powder
b) Colour:	Light blue
c) Odour:	Odourless
d) Odour threshold:	Not determined.
e) pH value at 20°C:	~ 6
f) Melting point/melting range:	> 1400 °C
g) Boiling point/boiling range:	Undetermined.
h) Flash point:	Not determined.
i) Ignition temperature:	Not determined.
j) Self-igniting:	Product is not self-igniting.
k) Danger of explosion:	Not determined.
l) Upper/lower flammability or explosive limits:	Lower Not determined. Upper Not determined.
m) Vapour pressure 20°C:	Not determined.
n) Bulk Density at 20°C:	1100 - 1200 kg/m ³
o) Relative density:	Not determined.
p) Vapour density:	Not applicable.
q) Evaporation rate:	Not applicable.
r) Solubility in/miscibility with water:	Insoluble.
s) Partition coefficient: n- octanol/water:	Not determined.
t) Viscosity:	Dynamic Not applicable. Kinematic Not applicable.
u) Solids content:	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 irritant effect.
Serious eye damage/eye irritation:	No irritating effect.
Respiratory or skin sensitization:	No sensitising effects known
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.

exposure:	No further relevant information available.
Aspiration hazard:	No further relevant information available.
Additional information:	No further relevant information available.

11.2 Information on possible routes of exposure:-

Short Term (Acute) Exposure:	No further relevant information available.
Swallowed:	No further relevant information available.
Eyes:	No further relevant information available.
Skin:	No further relevant information available.
Inhaled:	No further relevant information available.
Long Term (Chronic) Exposure:	No further relevant information available.
Swallowed:	No further relevant information available.
Eyes:	No further relevant information available.
Skin:	No further relevant information available.
Inhaled:	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:-
No further relevant information available.

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

UN number ADR / IMDG / IATA:- | Void.

UN proper shipping name or technical name:-

ADR: | Void.

IMDG, IATA: | Void.

Transport hazard class(es): | Void.

Label: | Void.

Packaging group: | Void.

Environmental hazards: | Not applicable.

Special precautions for user: | Not applicable.

Danger code:	Void.
EMS Number:	Void.
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).

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:-

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

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.

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Users should rely on their own knowledge and inquiries and make their own determination as to the applicability of this information in relation to their particular purposes and specific circumstances. Each

user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.

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