

# **SAFETY DATA SHEET (GHS)**

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER

1.1 Product identifier:- IPS d.SIGN Glaze and Stain Liquid

Product name:

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

Metal-ceramic

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

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 Void

labelling:

Hazard statements: Dust generation

Particular danger of slipping on leaked/spilled product

Precautionary statements: Void

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:-

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		
	1		

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

#### **FIRST AID MEASURES** 4.

4.1 Description of necessary first aid measures:-

> If inhaled: Supply fresh air; consult doctor in case of complaints.

> > In case of unconsciousness place patient stably in side

position for transportation.

Rinse with water. In case of skin contact:

Generally the product does not irritate the skin.

Rinse opened eye for several minutes under running In case of eye contact:

water. If symptoms persist, consult a doctor.

Mechanical effects only.

If swallowed: 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. No further relevant information available.

Specific hazards arising from the 5.2

substance/mixture/product:-

Special protective equipment and precautions for fire fighters:-5.3

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

#### **Environmental precautions:-**6.2

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

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

Pick up mechanically.

Ensure adequate ventilation.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### HANDLING AND STORAGE 7.

#### 7.1 Precautions for safe handling:-

Only adequately trained personnel should handle this product.

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace

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

Store only in the original receptacle.

Keep container tightly sealed.

Store in dry conditions.



#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure control measures:-

Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis		
zirconium dioxide	1314-23-4	Short-term value: 10 mg/m³				
		Long-term value: 5 mg/m <sup>3</sup>				
		as Zr				

### 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.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

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

Do not inhale dust / smoke / mist.

### 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:

#### Protection of hands:

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.

Recommended filter device for short term use: Filter P2

### 9. PHYSICAL/CHEMICAL PROPERTIES

# 9.1 Information on physical/chemical properties:-

a) Appearance/Form:b) Colour:FluidColourless

c) Odour: Characteristicd) Odour threshold: Not determined.

e) **pH value:** Not applicable.



f) Melting point/melting range: 50 °C
g) Boiling point/boiling range: 207 °C
h) Flash point: 109 °C

i) Ignition temperature: 375 °C
 j) Self-igniting: Product is not self-igniting.

j) Self-igniting: Product is not setk) Danger of explosion: Not determined.

l) Upper/lower flammability or explosive Lower limits: Lower

m) Vapour pressure: Not applicable.

n) Density at 20°C:

o) Relative density:
p) Vapour density:
q) Evaporation rate:
r) Solubility in/miscibility with water:

1 g/cm³
Not determined.
Not applicable.

r) Solubility in/miscibility with water: Fully miscible. Solubility in/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:

. LD/LC50 values relevant for classification:

107-88-0 butane-1,3-diol Oral LD50 18610 mg/kg (rat)

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Respiratory or skin sensitization:

No irritant effect.

Mechanical effects only.

No sensitizing effects known.

Germ cell mutagenicity:

Carcinogenicity:

Reproductive toxicity:

No further relevant information available.

No further relevant information available.

No further relevant information available.

**Specific target organ toxicity - single**No further relevant information available.

exposure:

Specific target organ toxicity - repeated \[ \bar{N} \]

No further relevant information available.

Not determined.

Not determined.



exposure:
Aspiration hazard:
Additional information:

No further relevant information available.
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. No further relevant information available. Swallowed: Eves: No further relevant information available. Skin: No further relevant information available. Inhaled: No further relevant information available. No further relevant information available.

- 11.3 Early onset symptoms related to exposure:-
- 11.4 Delayed health effects from exposure:-
- 11.5 Exposure levels and health effects:-
- 11.6 Interactive effects:-
- 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:-

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

# Additional ecological information / General notes:-

No further relevant information available.

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. 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:**Special precautions for user:
Not applicable.
Not applicable.

Danger code:Void.EMS Number:Void.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Transport/Additional information:

Product is not classified as a dangerous good for transport

(ADR, IMDG, IATA).

Not applicable.

#### 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:-

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.

Disclaimer:-

<sup>\*</sup> Data compared to the previous version altered



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