

SAFETY DATA SHEET (GHS)

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

 Product identifier:-Product name: Product number:
Other means of identi

Vivaglass Liner (Liquid) Void

Ivoclar Vivadent AG Bendererstrasse 2 FL-9494 Schaan

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PRINCIPALITY OF LIECHTENSTEIN

0800 764 766 (National Poison Centre) Poisons Hotline (24 hours / 7 days)

12 Omega St, Rosedale, Auckland, New Zealand Phone +64 9 914 9999 Fax +64 9 914 9990

- 2 Other means of identification:-Not applicable.
- 1.3 Recommended use of the chemical and restrictions on use:-Not applicable. Identified uses: Light-curing glass ionomer cement
- 1.4 Details of the manufacturer and importer:-Manufacturer:

Importer:

1.5 Emergency phone number:

2. HAZARD(S) IDENTIFICATION

2.1 GHS Classification:-Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

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



Signal word: Hazard-determining components of labelling:

Hazard statements:

Precautionary statements:

Warning 2-hydroxyethyl methacrylate urethane dimethacrylate triethylene glycol dimethacrylate H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. P261 Avoid breathing vapours. P280 Wear protective gloves/protective clothing/eye protection/face protection. P363 Wash contaminated clothing before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3 Additional information:



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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:- | Void |
|-------------------------------------|------|
| Results of PBT and vPvB assessment; | PBT: |
| | |

Not applicable. **vPvB:** Not applicable.

COMPOSITION/INFORMATION ON INGREDIENTS 3

Mixture of substances listed below with nonhazardous additions

| Ingredient name | CAS No. | Classification | Concentration |
|--------------------------------------|------------|--|---------------|
| 2-hydroxyethyl methacrylate | 868-77-9 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 25-50% |
| carbomer | 9003-01-4 | Eye Irrit. 2, H319 | 25-50% |
| urethane dimethacrylate | 72869-86-4 | Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 3-<10% |
| triethylene glycol dimethacrylate | 109-16-0 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | 3-<10% |

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. Generally the product does not irritate | |
| | | the skin | |
| | In case of eye contact: | Rinse opened eye for several minutes under running | |
| | in case of eye contact. | water. Then consult a doctor. | |
| | If swallowed: | Rinse out mouth and then drink plenty of water. | |
| | li Swalloweu. | If symptoms persist consult doctor. | |
| 4.0 | Sumptome could be expective. | No further relevant information available | |
| 4.2 | Symptoms caused by exposure:- | | |
| 4.3 | Medical attention and special treatment:- | No further relevant information available. | |
| - | | | |
| 5. | FIRE FIGHTING MEASURES | | |
| 5.1 | Suitable extinguishing equipment:- | | |
| | | | |
| | Suitable extinguishing media: | CO2, powder or water spray. Fight larger fires with water | |
| | | spray or alcohol resistant foam | |
| | Unsuitable extinguishing media: | No further relevant information available | |
| 5.2 | Specific hazards arising from the | No further relevant information available | |
| | substance/mixture/product:- | | |
| 5.3 | Special protective equipment and precaution | ns 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:- | | |
| ••• | Not required. | | |
| 6.2 | Environmental precautions:- | | |
| 0.2 | Do not allow to enter sewers/ surface or ground water. | | |
| 6.3 | | | |
| 0.5 | | | |
| | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). | | |
| | 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.
- 7.2 Conditions for safe storage, including any incompatibilities:-Store only in the original receptacle.
 Protect from exposure to the light.
 Protect from heat and direct sunlight.
 Keep container tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure control measures:-Occupational exposure limits:

| Component | CAS No. | Value | Parameters | Basis |
|-----------|---------|-------|------------|-------|
| | | | | |
| | | | | |

Ingredients with biological limit values:

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. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed.

8.3 Control banding:-

Void

8.4 Engineering controls:-

Void

8.5 Individual protection measures include PPE:-Eye/face protection:



Skin protection:



Safety glasses

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. After use of gloves apply skin-cleaning agents and skin cosmetics.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be



observed.

· Not suitable are gloves made of the following materials:

Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. 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.

Respiratory protection:



PHYSICAL/CHEMICAL PROPERTIES 9.

9.1 Information on physical/chemical properties:-Appearance/Form: Fluid a) Colour: Colourless b) Odour: c) Characteristic d) **Odour threshold:** Not determined. pH-value (10 g/l) at 20 °C: Not determined. e) Melting point/melting range: f) Not determined. Boiling point/boiling range: Not determined. g) Flash point: Not determined. h) Ignition temperature: Not determined. i) Self-igniting: Product is not self-igniting. i) Danger of explosion: Product does not present an explosion hazard. k) Upper/lower flammability or explosive Lower Not determined. I) limits: Upper Not determined. Vapour pressure 20°C: Not determined. m) Density at 20°C: Not determined. n) Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not applicable.

Kinematic | Not applicable.

Fully miscible

Dynamic

- Relative density: o)
- Vapour density: p)
- **Evaporation rate:** q)
- Solubility in / Miscibility with r) water:
- Partition coefficient: n- octanol/water: s)
- t) Viscosity:
- Solids content: u)

10. STABILITY AND REACTIVITY

- **Reactivity:-**10.1
 - 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:-Protect from exposure to the light. Keep away from heat and direct sunlight.

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|------|---|----|---|



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|-------------|--|--|--|
| 10.5 | Incompatible materials:- | | |
| | No further relevant information available. | | |
| 10.6 | | | |
| | None under normal conditions of storage and | d use. | |
| | | | |
| 11. | TOXICOLOGICAL INFORMATION | | |
| 11.1 | Information on toxicological effects:- | | |
| | Acute toxicity / Values relevant for classif | ication: | |
| | Skin correcton/irritation | I witcut to alkin and writering membranes | |
| | Skin corrosion/irritation: | Irritant to skin and mucous membranes. | |
| | Serious eye damage/eye irritation: | Irritating effect. | |
| | Respiratory or skin sensitization: | Sensitisation possible through skin contact. No further relevant information available. | |
| | Germ cell mutagenicity: Carcinogenicity: | No further relevant information available. | |
| | Reproductive toxicity: | No further relevant information available. | |
| | Specific target organ toxicity - single | No further relevant information available. | |
| | exposure: | | |
| | Specific target organ toxicity - repeated | No further relevant information available. | |
| | exposure: | | |
| | Aspiration hazard: | No further relevant information available. | |
| | Additional information: | | |
| | | 1 | |
| 11.2 | Information on possible routes of exposu | re:- | |
| | 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 | No further relevant information available. | |
| | exposure:- | | |
| 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. | |
| 40 | | | |
| 12. 12.1 | | | |
| 12.1 | Ecotoxicity:- No further relevant information available | | |
| 12.2 | Persistence/degradability:- | | |
| 12.2 | No further relevant information available. | | |
| 12.3 | Bioaccumulative potential:- | | |
| 12.0 | 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 / Genera | al notes:- | |
| | | tities of it to reach ground water, water course or sewage | |
| | system. | | |
| 12.6 | Other adverse effects:- | | |
| - | No further relevant information available | | |

No further relevant information available.

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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: | Void |
| | Special precautions for user: | Void |
| | Danger code: | Void |
| | EMS Number: | Void |
| | Transport in bulk according to Annex II of | Void |
| | MARPOL73/78 and the IBC Code: | |
| | Transport/Additional information: | Product is not classified as a dangerous good for |
| | | transport |
| | | (ADR, IMDG, IATA). |
| | UN "Model Regulation": | Void |
| | | |

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-National regulations:

· Other regulations, limitations and prohibitive regulations

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:-

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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. * Data compared to the previous version altered

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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.

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.