

SAFETY DATA SHEET (GHS)

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE/PRODUCT AND MANUFACTURER/IMPORTER**1.1 Product identifier:-**

Product name: Optra Gate
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: Flexible aid for full mouth access

1.4 Details of the manufacturer and importer:-

Manufacturer: Ivoclar Vivadent AG
 Bendererstrasse 2
 FL-9494 Schaan
 PRINCIPALITY OF LIECHTENSTEIN

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

1.5 Emergency phone number: 0800 764 766 (National Poison Centre)
 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 labelling:

Void

Hazard statements:

Void

Precautionary statements:

Void

2.3 Additional information: Void**Other hazards:-**

Void

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
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Chemical characterisation

Product is made of Styrol-Ethylen-Butylen-Styrol (SEBS 95%)

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

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<p>If inhaled: In case of skin contact: In case of eye contact: If swallowed:</p>	<p>No further relevant information available No further relevant information available No further relevant information available No further relevant information available</p>
<p>4.2 Symptoms caused by exposure:-</p>	<p>No further relevant information available</p>
<p>4.3 Medical attention and special treatment:-</p>	<p>The material is contra-indicated if a person is known to be allergic to any of the ingredients of the product.</p>

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing equipment: - Carbon dioxide, extinguishing powder, water fog, foam and dry chemicals. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Suitable extinguishing media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Unsuitable extinguishing media: Waterjet.

5.2 Specific hazards arising from the substance/mixture/product:- No further relevant information available

5.3 Special protective equipment and precautions for fire fighters:-

Special personal protective equipment: When extinguishing fires, use breathing apparatus with an independent source of air. Firefighters should wear full protective clothing including self-contained breathing apparatus

Precautions: No further relevant information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:-

Wear suitable protective clothing, gloves and eye / face protection

6.2 Environmental precautions:-

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

6.3 Methods and materials for containment and cleaning up:-

Clean up mechanically.

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

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:-

Keep out of reach of children.

No anti-explosion measures necessary

7.2 Conditions for safe storage, including any incompatibilities:-

Store in a dry, well-ventilated area in the original container.

Store at 2 – 28oC / 36 – 82oF. Do not store in open sunshine.

Store foodstuffs separately

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure control measures:-

Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis
TWA (AUS)		MAK 0mg/m ³		

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:

Do not eat or drink during work. No smoking. Keep away from food, drink and animal feeding stuff.

8.3 Control banding:-

Void

8.4 Engineering controls:-

Void

8.5 Individual protection measures include PPE:-

Eye/face protection:



Safety glasses

Avoid contact with eyes. Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337). An eyewash fountain should be located in the immediate working area. Wear eye protection when mixing or using. Use approved close fitting safety goggles and / or visor for splash protection

Skin protection:



Short-term exposure (<30mins): disposable gloves, eg: nitrile rubber, material thickness 0.1mm (Australian Standard 2161). Long-term exposure (Level 6: < 480min): protective gloves, eg: nitrile rubber, material thickness 0.7mm (Australian Standard 2161).

Commercial medical gloves do not provide protection against the sensitising effect of methacrylates. Check penetration time for the specific gloves used with the glove manufacturer. Solvent resistant gloves.

Respiratory protection:



Provide for good ventilation.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on physical/chemical properties:-

a)	Appearance/Form:	Flexible solid
b)	Colour:	White
c)	Odour:	Odourless
d)	Odour threshold:	Not determined.
e)	pH-value (10 g/l) at 20 °C:	Not determined.
f)	Melting point/melting range:	1013 hPa
g)	Boiling point/boiling range:	Not determined.
h)	Flash point:	Not determined.
i)	Ignition temperature:	Not determined.
j)	Self-igniting:	Product is not self-igniting.
k)	Danger of explosion:	Product does not present an explosion hazard.
l)	Upper/lower flammability or explosive limits:	Lower Not determined. Upper Not determined.
m)	Vapour pressure 20°C:	Not determined.
n)	Density at 20°C:	Not determined.

o)	Relative density:	Not determined.
p)	Vapour density:	Not determined.
q)	Evaporation rate:	Not determined.
r)	Solubility in / Miscibility with water:	Not Soluble
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:

Avoid excessive heat and direct sunlight.

10.3 Possibility of hazardous reactions:-

No further relevant information available.

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 further relevant information available.

Serious eye damage/eye irritation:

No further relevant information available.

Respiratory or skin sensitization:

No further relevant information available.

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 exposure:

No further relevant information available.

Aspiration hazard:

No further relevant information available.

Additional information:

11.2 Information on possible routes of exposure:-

Short Term (Acute) Exposure:

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:

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:-	Concentrate: Avoid contamination of ground water or waterways. The product must not enter effluent, ground water, surface water or the soil. Clean up with liquid binding material (sand, dolomite, acid binders, universal binders and sawdust). Complete the disposal in compliance with all applicable Local, State and Federal government regulations.
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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. Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material (including containers) in accordance with all applicable Local, State and Federal government regulations regarding waste management methods.

14. TRANSPORT INFORMATION

UN number ADR / IMDG / IATA:-	Void
UN proper shipping name or technical name:-	Void
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 MARPOL73/78 and the IBC Code:	Void
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
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substance/mixture/product:-

Void

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**Key to abbreviations/acronyms used in SDS:-**

Void

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**

Disclaimer:-

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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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OptraGate

