

SAFETY DATA SHEET (GHS)

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

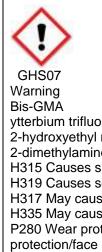
1.1	Product identifier:-			
	Product name:	Multilink Automix (Base)		
	Product number:	Void		
1.2	Other means of identification:-			
	Not applicable.			
1.3	Recommended use of the chemical and re	Recommended use of the chemical and restrictions on use:-		
	Not applicable.			
	Identified uses:	Self-curing resin-based dental luting material with light-		
		curing option		
1.4 Details of the manufacturer and importer:-		-		
	Manufacturer:	Ivoclar Vivadent AG		
		Bendererstrasse 2		
		FL-9494 Schaan		
		PRINCIPALITY OF LIECHTENSTEIN		
	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)		

HAZARD(S) IDENTIFICATION 2.

GHS Classification:-2.1

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. STOT SE 3 H335 May cause respiratory irritation.

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



Signal word: Hazard-determining components of labelling: ytterbium trifluoride 2-hydroxyethyl methacrylate 2-dimethylaminoethyl methacrylate Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. P280 Wear protective gloves/protective clothing/eye **Precautionary statements:** protection/face protection. P363 Wash contaminated clothing before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical



advice/attention.

Additional information: Medical devices as defined in Directive 93/42/EEC and which are invasive or 2.3 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:
	vPvB:

Not applicable. Not applicable.

3 **COMPOSITION/INFORMATION ON INGREDIENTS** Mixture of substances listed below with p a additiona

Mixture of substances listed below with nonhazardous additions.			
Ingredient name	CAS No.	Classification	Concentration
ytterbium trifluoride	13760-80-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-<25%
ethyoxylated bisphenol A dimethacrylate	41637-38-1	Aquatic Chronic 4, H413	10-<25%
Bis-GMA	1565-94-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-<25%
2-hydroxyethyl methacrylate	868-77-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	3-<10%
2-dimethylaminoethyl methacrylate	2867-47-2	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.3-<1%

4. FIRST AID MEASURES

4.1 Description of necessary first aid measures:-

4.2	If inhaled: In case of skin contact: In case of eye contact: If swallowed: Symptoms caused by exposure:-	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Rinse with water. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor. No further relevant information available
4.3	Medical attention and special	No further relevant information available.
4.5	treatment:-	
5. 5.1	FIRE FIGHTING MEASURES 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 precautions for fire fighters:-	
	Special personal protective equipment:	No further relevant information available
	Precautions:	No further relevant information available

ACCIDENTAL RELEASE MEASURES 6.

- 6.1 Personal precautions, protective equipment and emergency procedures:-Not required
- 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
- 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. Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin.

8.3 Control banding:-

Use good industrial hygiene practice and general ventilation.

- 8.4 Engineering controls:-
- 8.5 Individual protection measures include PPE:-Eye/face protection: Safety glasses



Skin protection:



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.

Required Use tightly fitting safety glasses as per Australian

· Material of gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Penetration time of glove material

Standard AS 1336 and AS/NZS 1337.

The exact break through time has to be found out by the



Respiratory protection:

manufacturer of the protective gloves and has to be observed. Not Required



- 9. PHYSICAL/CHEMICAL PROPERTIES
- 9.1 Information on physical/chemical properties:-
- a) Appearance/Form:
- b) Colour:
- c) Odour:
- d) Odour threshold:
- e) pH-value (10 g/l) at 20 °C:
- f) Melting point/melting range:
- g) **Boiling point/boiling range:**
- h) Flash point:
- i) Ignition temperature:
- j) Self-igniting:
- **k**) **Danger of explosion**:
- I) Upper/lower flammability or explosive limits:
- m) Vapour pressure 20°C:
- n) Density at 20°C:
- o) Relative density:
- p) Vapour density:
- q) **Evaporation rate**:
- r) Solubility in/miscibility with water:
- s) Partition coefficient: n- octanol/water:
- t) Viscosity:
- u) Solids content:

10. STABILITY AND REACTIVITY

10.1 Reactivity:-

No further relevant information available.

10.2 Chemical stability:-Photoreactive (Danger of polymerization).

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.

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:-

Pastv According to product specification Characteristic Not determined. Not determined. Not determined. Not determined. Not determined Not determined Product is not self-igniting. Not determined. Lower Not determined Upper Not determined. Not determined.

2.05 g/cm³ Not determined. Not applicable. Not applicable. Nearly insoluble Not determined. Dynamic | Not applicable. Kinematic | Not applicable. Not determined.



Acute toxicity / Values relevant for classification:

	Skin corrosion/irritation: Serious eye damage/eye irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - single exposure:	No irritant effect No irritating effect Sensitisation possible through skin contact. No further relevant information available. No further relevant information available. No further relevant information available.
	Specific target organ toxicity - repeated exposure:	No further relevant information available.
	Aspiration hazard: Additional information:	No further relevant information available. No further relevant information available.
44.0	Information on possible routes of our course	
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. 12.1	ECOLOGICAL INFORMATION Ecotoxicity:-	
	No further relevant information available.	
12.2	Persistence/degradability:-	
40.0	No further relevant information available.	
12.3	Bioaccumulative potential:-	
124	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**

Disposal methods:-13.1

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.

	• Recommendation: Disposal must be made according to official regulations.		
14.	TRANSPORTINFORMATION		
	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	Not applicable.	
	of MARPOL73/78 and the IBC Code:		
	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:-

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H413 May cause long lasting harmful effects to aquatic life.

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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