

**SAFETY DATA SHEET (GHS)**

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

**Product name:** Syntac Adhesive  
**Product number:** 532891AN / 532892AN / 628320AN

**1.2 Other means of identification:-**

Not applicable.

**1.3 Recommended use of the chemical and restrictions on use:-**

Not applicable.

**Identified uses:**

Enamel-Dentin Bonding Agent.

**1.4 Details of the manufacturer and importer:-****Manufacturer:**

Ivoclar Vivadent AG  
 Bendererstrasse 2 FL-9494 Schaan  
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**Importer:**

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:-**

Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Dam. 1 H318 Causes serious eye damage.  
 Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 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:**

GHS05



GHS07



GHS08

**Signal word:****Hazard-determining components of labelling:****Hazard statements:**

Danger  
 Glutaral  
 Polyethylene glycol dimethacrylate  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

**Precautionary statements:**

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

#### 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.

#### 2.3 Other hazards:-

##### Results of PBT and vPvB assessment:-

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	CAS No.	Classification	Concentration
Polyethylene glycol dimethacrylate	25852-47-5	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	25-50%
Glutaral	111-30-8	Acute Tox. 3 - H301 Acute Tox. 3 - H331 Resp. Sens. 1 - H334 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Skin Sens. 1 - H317	3-<10%
Non-hazardous ingredients	N/A	N/A	to 100%

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

### 4. FIRST AID MEASURES

#### 4.1 Description of necessary first aid measures:-

##### General advice:

Remove contaminated clothing and shoes immediately and launder thoroughly before reusing.

First aid facilities include first aid rooms and medical centres.

If a risk assessment determines that a first aid room or medical centre is not needed, a rest area within the workplace may be suitable to assist an injured or ill person.

##### If inhaled:

Ensure supply of fresh air or oxygen – seek medical attention immediately.

If required, provide artificial respiration.

Remove affected person from the immediate area.

Keep patient warm.

In case of unconsciousness place patient stably in side position for transportation.

##### In case of skin contact:

Wash off immediately with water.

If skin irritation continues, consult a doctor.

##### In case of eye contact:

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart and seek medical attention immediately.

##### If swallowed:

Do not induce vomiting.

Rinse mouth thoroughly with water.

Let plenty of water be drunk in small gulps.

Never give anything by mouth to an unconscious person.

Seek medical attention immediately.

- 4.2 Symptoms caused by exposure:-** | Please refer to section 2.2 and section 11.
- 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.  
Water with full jet
- 5.2 Unsuitable extinguishing media:** | No further relevant information available.
- 5.3 Specific hazards arising from the substance/mixture/product**
- Special protective equipment and precautions for fire fighters:-**
- Special personal protective equipment:** | Mouth respiratory protective device.  
Wear self-contained respiratory protective device.
- Precautions:** | Cool endangered receptacles with water spray.
- 6. ACCIDENTAL RELEASE MEASURES**
- 6.1 Personal precautions, protective equipment and emergency procedures:-**  
Wear protective equipment. Keep unprotected persons away.  
Use of suitable equipment (incl PPE) to prevent contamination of skin, eyes, clothing, removal of ignition sources, ventilation, emergency procedures (eg. evacuate, consult expert).
- 6.2 Environmental precautions:-**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and materials for containment and cleaning up:-**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- 6.4 Reference to other sections:-**  
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 good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Keep ignition sources away – do not smoke.  
Wash hands before breaks and after work.  
Do not eat, drink or smoke during work time.  
Remove soiled or soaked clothing immediately.  
Keep away from foodstuffs and beverages.
- 7.2 Conditions for safe storage, including any incompatibilities:-**  
Store only in original container.  
**Information about storage in one common storage facility:**  
No further relevant information available.  
**Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from exposure to the light.  
Protect from heat and direct sunlight.  
Containers which are opened must be carefully closed and kept upright to prevent leakage.

Store in cool, dry conditions in well-sealed receptacles.  
Store receptacle in a well ventilated area.  
Recommended storage temperature for storage rooms and vessels is 20 - 30°C.

### 7.3 Specific end use:-

No further relevant information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure control measures:-

#### Occupational exposure limits:

Component	CAS No.	Value	Parameters	Basis
Glutaral	111-30-8	Short-term value: 0.2 mg/m <sup>3</sup> Long-term value: 0.2 mg/m <sup>3</sup>	0.05 ppm 0.05 ppm	The lists valid during the making were used as basis.

Exposure should be kept to as low as practicable and below the AOES.

### 8.2 Biological monitoring:-

Assess in accordance with exposure limits – please refer to section 8.1.

#### Exposure controls / Personal protective equipment / General protective and hygienic measures:

Usual hygienic measures for dental practice and dental laboratories.

Immediately remove all soiled and contaminated clothing.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

### 8.3 Control banding:-

Use good industrial hygiene practice and general ventilation.

### 8.4 Engineering controls:-

In case of intensive contact, wear protective gloves (EN 374).

Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn.

### 8.5 Individual protection measures include PPE:-

#### Eye/face protection:



#### Safety glasses

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

#### Skin protection:



#### Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Respiratory protection:****Recommended filter device for short term use:****Material of gloves**

Butyl rubber, BR.  
Fluorocarbon rubber (Viton).  
PVA 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 cannot 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.

Provide for good ventilation of working area (local exhaust ventilation, if necessary).

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.

No further relevant information available.

**9. PHYSICAL/CHEMICAL PROPERTIES****9.1 Information on physical/chemical properties:-**

a)	<b>Appearance/Form:</b>	Fluid.
b)	<b>Colour:</b>	Colourless.
c)	<b>Odour:</b>	Characteristic.
d)	<b>Odour threshold:</b>	Not determined.
e)	<b>pH value at 20°C:</b>	Not determined.
f)	<b>Melting point/melting range:</b>	Undetermined.
g)	<b>Boiling point/boiling range:</b>	Undetermined.
h)	<b>Flash point:</b>	Not applicable.
i)	<b>Ignition temperature:</b>	Not applicable.
j)	<b>Self-igniting:</b>	Product is not self-igniting.
k)	<b>Danger of explosion:</b>	Product does not present an explosion hazard.
l)	<b>Upper/lower flammability or explosive limits:</b>	Lower   Not determined.
		Upper   Not determined.
m)	<b>Vapour pressure:</b>	Not determined.
n)	<b>Density at 20°C:</b>	1.38 g/cm <sup>3</sup> .
o)	<b>Relative density:</b>	Not determined.
p)	<b>Vapour density:</b>	Not determined.
q)	<b>Evaporation rate:</b>	Not determined.
r)	<b>Solubility in/miscibility with water:</b>	Fully miscible.
s)	<b>Partition coefficient: n- octanol/water:</b>	Not determined.
t)	<b>Viscosity:</b>	Dynamic   Not determined.
		Kinematic   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:**

**LD/LC50 values relevant for classification:**

Glutaral 111-30-8

Oral	LD50	134 mg/kg (rat)
Dermal	LD50	2560 mg/kg (rabbit)

Irritant to skin and mucous membranes.

Strong irritant with the danger of severe eye injury.

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

No further relevant information available.

No further relevant information available.

No further relevant information available.

No further relevant information available.

**Germ cell mutagenicity:**

**Carcinogenicity:**

**Reproductive toxicity:**

**Specific target organ toxicity - single exposure:**

**Specific target organ toxicity - repeated 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:**

**Swallowed:**

No further relevant information available.

**Eyes:**

No further relevant information available.

**Skin:**

Strong irritant with the danger of severe eye injury.

**Inhaled:**

Irritant to skin and mucous membranes.

**Long Term (Chronic) Exposure:**

Sensitisation possible through inhalation.

**Swallowed:**

No further relevant information available.

**Eyes:**

Strong irritant with the danger of severe eye injury.

**Skin:**

Irritant to skin and mucous membranes.

**Inhaled:**

Sensitisation possible through inhalation.

- 11.3 Early onset symptoms related to 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.

**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 product to reach ground water, water course or sewage system, even in small quantities.

**12.6 Other adverse effects:-**

No further relevant information available.

**13. DISPOSAL CONSIDERATIONS****13.1 Disposal methods:-**

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal.

Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Disposal must be made according to official regulations.

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

**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.

**Void.**

Void.

**Environmental hazards:**

Not applicable.

**Special precautions for user:**

Not applicable.

**Danger code:**

Void.

**EMS Number:**

Void.

**Segregation groups:**

Not applicable.

**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.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance/mixture/product:-**

Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.

Standard for the Uniform Scheduling of Medicines and Poisons.

Carcinogen classification under WHS Regulation 2011, Schedule 10.

Notification status in accordance with section 3 and current national legislation.

HSNO Approval: HSR007183

EPA NZ Classes of hazardous properties:

Classification 6.1E (All) Substances that are acutely toxic – May be harmful, aspiration hazard

Classification 6.1E (I)



Classification 6.3A Substances that are irritating to the skin  
 Classification 6.4A Substances that are irritating to the eye  
 Classification 6.5A Substances that are respiratory sensitisers  
 Classification 6.5B Substances that are contact sensitisers  
 Classification 6.9B (All) Substances that are harmful to human target organs or systems  
 Classification 6.9B (O)  
 Classification 9.1D (All) Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action  
 Classification 9.1D (C)  
 Classification 9.1D (A)  
 Classification 9.2C Substances that are harmful in the soil environment  
 Classification 9.3C Substances that are harmful to terrestrial vertebrates

## 16. OTHER INFORMATION

### Key to abbreviations/acronyms used in SDS:-

H301 Toxic if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.

### Key literature references/data sources used to compile SDS:-

Standard EN420:2003 General requirements for protective gloves: disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).

Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Personal eye protection - Eye and face protectors for occupational applications: safety glasses (Australian Standard AS 1336 and AS/NZS 1337.1:2010).

### 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

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1



Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
· \* **Data compared to the previous version altered.**

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