

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 Primer
Product number: 532891AN / 532893AN

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
 Principality of Liechtenstein
 Tel: + 423 235 35 35 Fax: + 423 235 33 60

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
 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:-**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.
 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 H336 May cause drowsiness or dizziness.

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

GHS02



GHS07

Signal word:

Danger

Hazard-determining components of labelling:

Triethylene glycol dimethacrylate
 Acetone
 Maleic acid

Hazard statements:

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing mist/vapours/spray.
 P280 Wear protective gloves / eye protection.
 P233 Keep container tightly closed.

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 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
Acetone	67-64-1	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	25-50%
Triethylene glycol dimethacrylate	109-16-0	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335	10-<25%
Polyethylene glycol dimethacrylate	25852-47-5	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	3-<10%
Maleic acid	110-16-7	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335	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.
Please refer to section 2.2 and section 11.

4.2 Symptoms caused by exposure:-**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:

Water with full jet

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:**

Wear self-contained respiratory protective device.

Fumes are heavier than air.

Precautions:

Cool endangered receptacles with water spray.

Hazchem code:

3 Flammable liquids

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.

Prevent formation of aerosols.

Open and handle receptacle with care.

Keep ignition sources away – do not smoke.

Protect against electrostatic charges.

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
Acetone	67-64-1	Short-term value: 3620 mg/m ³ Long-term value: 1210 mg/m ³	1500 ppm 500 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 dust / smoke / mist.

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:**Respiratory protection:****Recommended filter device for short term use:****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.

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)	Appearance/Form:	Fluid.
b)	Colour:	Colourless.
c)	Odour:	Acetone-like.
d)	Odour threshold:	Not determined.
e)	pH value at 20°C:	Not determined.
f)	Melting point/melting range:	Undetermined.
g)	Boiling point/boiling range:	Undetermined.
h)	Flash point:	<21°C.
i)	Ignition temperature:	Not applicable.
j)	Self-igniting:	Product is not self-igniting.
k)	Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
l)	Upper/lower flammability or explosive limits:	Lower 2.6 Vol % Upper 13.0 Vol %
m)	Vapour pressure:	Not determined.
n)	Density at 20°C:	1.39 g/cm ³ .
o)	Relative density:	Not determined.
p)	Vapour density:	Not determined.
q)	Evaporation rate:	Not determined.

r)	Solubility in/miscibility with water:	Fully miscible.
s)	Partition coefficient: n- octanol/water:	Not determined.
t)	Viscosity:	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:

No further relevant information available.

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.

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:

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:

Irritating effect.

Inhaled:

Irritant to skin and mucous membranes.

Long Term (Chronic) Exposure:

No further relevant information available.

Swallowed:

No further relevant information available.

Eyes:

Irritating effect.

Skin:

Irritant to skin and mucous membranes.

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:-

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:-

UN1090

UN proper shipping name or technical name:-

ADR:

1090 Acetone.

IMDG, IATA:

Acetone.

Transport hazard class(es):



3 (F1) Flammable liquids.

Label:

3.

Packing group:

II

Environmental hazards:

Not applicable.

Special precautions for user:

Warning: Flammable liquids.

Danger code:

33.

EMS Number:

F-E, S-E

Segregation groups:

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Additional information – ADR:-

Limited quantities:

1L

Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category:

2

Tunnel restriction code:	D/E
Additional information – IMDG:-	
Limited quantities:	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Hazchem or emergency action code:	3 (F1) Flammable liquids.

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: HSR006435, HSR003763, HSR003441

EPA NZ Classes of hazardous properties:

Classification 3.1B Flammable liquid - very high hazard

Classification 6.1D (All) Substances that are acutely toxic - Harmful

Classification 6.1D (O)

Classification 6.1D (D)

Classification 6.3A Substances that are irritating to the skin

Classification 6.3B Substances that are mildly irritating to the skin

Classification 6.4A Substances that are irritating to the eye

Classification 6.5B Substances that are contact sensitisers

Classification 8.3A Substances that are corrosive to ocular tissue

Classification 9.1D (All) Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action

Classification 9.1D (F)

Classification 9.3C Substances that are harmful to terrestrial vertebrates

16. OTHER INFORMATION

Key to abbreviations/acronyms used in SDS:-

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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

ATA: 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)

Flam. Liq. 2: Flammable liquids, Hazard Category 2

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· * **Data compared to the previous version altered.**

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