

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification

- **Other means of identification**
- **Trade name:** **G-aenial Anterior**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Auxillary for dental technology
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

GC Australasia Dental Pty Ltd  
1753 Botany Road  
Banksmeadow, NSW 2019  
Tel: +61 2 9301 8200

- **Further information obtainable from:** Regulatory affairs
- **Emergency telephone number:** 24 hours Emergency: 13 11 26.

### 2 Hazard(s) Identification

- **Classification of the substance or mixture**  
Acute toxicity - oral – Category 4      H302 Harmful if swallowed.  
Acute toxicity - inhalation – Category 3      H331 Toxic if inhaled.  
Skin sensitisation – Category 1      H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Exemptions**

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

- **Hazard pictograms**



GHS06

- **Signal word** Danger

- **Hazard-determining components of labelling:**

Urethane Dimethacrylate (UDMA) (25-<50 %)  
Ytterbium trifluoride (5-<10 %)  
2-(2H-benzotriazol-2-yl)-p-cresol (0.1-<0.2 %)

- **Hazard statements**

Harmful if swallowed.  
Toxic if inhaled.

(Contd. on page 2)

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

**Trade name: G-aenial\_Anterior**

(Contd. of page 1)

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**

· **Description:**

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· **Dangerous components:**

72869-86-4	Urethane Dimethacrylate (UDMA) Skin sensitisation – Category 1B, H317	25-<50%
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	5-<10%
13760-80-0	Ytterbium trifluoride Acute toxicity - oral – Category 3, H301; Acute toxicity - dermal – Category 3, H311; Acute toxicity - inhalation – Category 3, H331	5-<10%
9003-08-1	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde Eye damage/irritation – Category 1, H318; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	0.5-<1%
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol Acute toxicity - inhalation – Category 3, H331; Skin sensitisation – Category 1, H317	0.1-<0.2%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

· **General information:**

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Do not use mouth to mouth or mouth to nose resuscitation.

Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

If skin irritation continues, consult a doctor.

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 2)

- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Do not induce vomiting; call for medical help immediately.  
Rinse out mouth and then drink plenty of water.
- **Information for doctor:**  
· **Most important symptoms and effects, both acute and delayed** Allergic reactions  
· **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
No further relevant information available.
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.  
Avoid contact with the eyes and skin.  
Wear protective clothing.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to penetrate the ground/soil.  
In case of seepage into the ground inform responsible authorities.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb liquid components with liquid-binding material.  
Dispose of the material collected according to regulations.
- **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

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Do not inhale dust / smoke / mist.  
Prevent formation of aerosols.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** Protect against electrostatic charges.

(Contd. on page 4)

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 3)

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Appropriate engineering controls** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Avoid contact with the eyes and skin.  
Wash hands before breaks and at the end of work.  
Immediately remove all soiled and contaminated clothing
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

- **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.
- **Eye protection:**



Tightly sealed goggles

### 9 Physical and Chemical Properties

- **General Information**
- **Appearance:**
- **Form:** Pasty
- **Colour:** According to product specification
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.

(Contd. on page 5)

AU

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 4)

- **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** >150 °C (>302 °F)
- **Flammability** Not applicable.
- **Auto-ignition temperature:** Undetermined.
- **Decomposition temperature:** Not determined.
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Insoluble.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Solvent content:**
- **VOC (EC)** 0.0 g/l

- **Other information**
- **Particle characteristics** SiO<sub>2</sub>: Diameter particle structure = 2.5 - 50 nm (TEM, d50, number-based)  
Diameter agglomerate = 5 - 50 mm (laser diffraction dry module, d50, volume based)
- **Physical state** Liquid

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed.  
Toxic if inhaled.

#### · LD/LC50 values relevant for classification:

72869-86-4 Urethane Dimethacrylate (UDMA)

Oral	LD50	>5,000 mg/kg (rat female) (OECD 401)
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(Contd. on page 6)

AU

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 5)

### 2440-22-4 2-(2H-benzotriazol-2-yl)-p-cresol

Oral	LD50	10,000 mg/kg (rat (f+m))
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Interactive effects**
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.

## 12 Ecological Information

### · Toxicity

#### · Aquatic toxicity:

### 72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static)	>1.2 mg/l (daphnia magna) (OECD 202)
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- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

AU

## Safety Data Sheet

according to WHS Regulations

Date of issue: 05.08.2025

Version number 8






Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 6)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b> · <b>ADG, IMDG, IATA</b>	UN2810
· <b>UN proper shipping name</b> · <b>ADG</b> · <b>IMDG</b> · <b>IATA</b>	2810 TOXIC LIQUID, ORGANIC, N.O.S. (Ytterbium trifluoride), ENVIRONMENTALLY HAZARDOUS TOXIC LIQUID, ORGANIC, N.O.S. (Ytterbium trifluoride, Urethane Dimethacrylate (UDMA)), MARINE POLLUTANT TOXIC LIQUID, ORGANIC, N.O.S. (Ytterbium trifluoride)
· <b>Transport hazard class(es)</b> · <b>ADG</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 (T1) Toxic substances. 6.1
· <b>IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances. 6.1
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	6.1 Toxic substances. 6.1
· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (ADG):</b>	Product contains environmentally hazardous substances: 2-(2H-benzotriazol-2-yl)-p-cresol No Symbol (fish and tree) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b>	Warning: Toxic substances. 60 F-A,S-A

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 7)

· <b>Stowage Category</b>	A
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
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· <b>ADG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (YTTERBIUM TRIFLUORIDE), 6.1, III, ENVIRONMENTALLY HAZARDOUS

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· <b>Australian Inventory of Industrial Chemicals</b>	
72869-86-4	Urethane Dimethacrylate (UDMA)
68476-25-5	Feldspar-group minerals
65997-17-3	Glass, oxide, chemicals
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate
3290-92-4	Propylidynetrimethyl trimethacrylate
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid.
7128-64-5	2,5-Thiophendiylbis(5-tert-butyl-1,3-benzoxazol)
9003-08-1	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde
2530-85-0	3-trimethoxysilylpropyl methacrylate
78-67-1	2,2'-dimethyl-2,2'-azodipropionitrile
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol
10373-78-1	Camphorquinone
21245-01-2	3-methylbutyl 4-(dimethylamino)benzoate
1309-37-1	Iron(III)oxide
1309-38-2	Iron (II,III) oxide
5870-38-2	Diethyl 2,5-dihydroxyterephthalate
13463-67-7	titanium dioxide

(Contd. on page 9)

AU

## Safety Data Sheet

### according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

Trade name: G-aenial\_Anterior

(Contd. of page 8)

20344-49-4	Iron hydroxide oxide
1879-09-0	6-tert-butyl-2,4-xylenol
128-37-0	Butylated hydroxytoluene

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS06

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Urethane Dimethacrylate (UDMA) (25-<50 %)

Ytterbium trifluoride (5-<10 %)

2-(2H-benzotriazol-2-yl)-p-cresol (0.1-<0.2 %)

· **Hazard statements**

Harmful if swallowed.

Toxic if inhaled.

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

· **Relevant phrases**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

(Contd. on page 10)

AU

## Safety Data Sheet according to WHS Regulations

Date of issue: 05.08.2025

Version number 8

Revision: 05.08.2025

**Trade name: G-aenial\_Anterior**

(Contd. of page 9)

*H331 Toxic if inhaled.**H335 May cause respiratory irritation.*

- **Department issuing SDS:** Regulatory affairs

- **Contact:** msds@gc.dental

- **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international 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*

*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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute toxicity - oral - Category 3: Acute toxicity - Category 3*

*Acute toxicity - oral - Category 4: Acute toxicity - Category 4*

*Skin corrosion/irritation - Category 2: Skin corrosion/irritation - Category 2*

*Eye damage/irritation - Category 1: Serious eye damage/eye irritation - Category 1*

*Eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A*

*Skin sensitisation - Category 1: Skin sensitisation - Category 1*

*Skin sensitisation - Category 1B: Skin sensitisation - Category 1B*

*Specific target organ toxicity (single exposure) - Category 3: Specific target organ toxicity (single exposure) - Category 3*

- **Sources**

- ECHA (<http://echa.europa.eu/>)

- EnviChem ([www.echemportal.org](http://www.echemportal.org))

- **\* Data compared to the previous version altered.**

*This version replaces all previous versions.*

*Disclaimer:*

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