

Safety Data Sheet according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- **Other means of identification**
- **Trade name: G-CEM ONE Paste B**
- **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**
Flammable liquids – Category 4 H227 Combustible liquid.
Skin corrosion/irritation – Category 1A H314 Causes severe skin burns and eye damage.
Eye damage/irritation – Category 1 H318 Causes serious eye damage.
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**



GHS05 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Urethane Dimethacrylate (UDMA) (25-<50 %)
- **Hazard statements**
Combustible liquid.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 1)

· Precautionary statements*Keep away from heat/sparks/open flames/hot surfaces. No smoking.**Do not breathe dusts or mists.**Wear protective gloves/protective clothing/eye protection/face protection.**IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Immediately call a POISON CENTER/doctor.**Specific treatment (see on this label).**Take off contaminated clothing and wash it before reuse.**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%
1830-78-0	2-Hydroxy-1,3 dimethacryloxypropane Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	5-<10%
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica Specific target organ toxicity (repeated exposure) – Category 2, H373	5-<10%
85590-00-7	methacryloyloxydecyl dihydrogen phosphate Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	2.5-<5%
80-15-9	α,α -dimethylbenzyl hydroperoxide Self-reactive substances and mixtures – Type C, H242; Organic peroxides – Type E, H242; Acute toxicity - inhalation – Category 3, H331; Specific target organ toxicity (repeated exposure) – Category 2, H373; Skin corrosion/irritation – Category 1B, H314; Acute toxicity - oral – Category 4, H302; Acute toxicity - dermal – Category 4, H312; Flammable liquids – Category 4, H227	0.5-<1%
1879-09-0	6-tert-butyl-2,4-xlenol Acute toxicity - dermal – Category 2, H310; Specific target organ toxicity (repeated exposure) – Category 2, H373; Acute toxicity - oral – Category 4, H302; Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	0.2-<0.5%

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

AU

(Contd. on page 3)

Safety Data Sheet according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: **G-CEM_ONE_Paste_B**

(Contd. of page 2)

4 First Aid Measures

- **General information:**
Immediately remove any clothing soiled by the product.
If symptoms persist consult doctor.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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.
- **After eye contact:**
Protect unharmed eye.
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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:**
Use neutralising agent.
Absorb liquid components with liquid-binding material.

(Contd. on page 4)

AU

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 3)

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.

Prevent formation of aerosols.

Avoid contact with the eyes and skin.

· **Information about fire - and explosion protection:** No special measures required.

· **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:** Keep container tightly sealed.

· **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.

· **DNELs**

1879-09-0 6-tert-butyl-2,4-xlenol

Inhalative	DNEL inhalation	0.14 mg/m ³ (man)
------------	-----------------	------------------------------

· **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.

Keep away from foodstuffs, beverages and feed.

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.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 4)

· Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

· General Information

· Appearance:

· Form:	Pasty
· Colour:	White
· Odour:	Ester-like
· Odour threshold:	Not determined.
· pH-value at 20 °C (68 °F):	1.5
· Change in condition	
· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	Undetermined.
· Flash point:	93 °C (199.4 °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 at 20 °C (68 °F):	1.5 g/cm ³ (12.5175 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Fully miscible.
· 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

SiO₂: Diameter particle structure = 2.5 - 50 nm (TEM, d₅₀, number-based)
 Diameter agglomerate = 5 - 50 nm (laser diffraction dry module, d₅₀, volume based)
 68909-20-6 Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica:
 set including amorphous nanoforms; surface-treated nanoforms;
 Spheroidal; amorphous forms; amorphous nanoform

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 5)

· **Physical state**

Fluid

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** Based on available data, the classification criteria are not met.

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

72869-86-4 Urethane Dimethacrylate (UDMA)

Oral	LD50	>5,000 mg/kg (rat female) (OECD 401)
------	------	--------------------------------------

80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (rat (f+m))
------	------	-----------------------

Dermal	LD50	500 mg/kg (rat (f+m))
--------	------	-----------------------

Inhalative	LC50/4 h	220 mg/l (rat (f+m))
------------	----------	----------------------

1879-09-0 6-tert-butyl-2,4-xyleneol

Oral	LD50	910 mg/kg (rat (f+m)) (OECD 401)
------	------	----------------------------------

Dermal	LD50	<200 mg/kg (rabbit) (OECD 402)
--------	------	--------------------------------

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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.

AU

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 6)

12 Ecological Information

- **Toxicity**

- **Aquatic toxicity:**

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

- **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.

- **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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- **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.

- **Uncleaned packaging:**

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

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **UN-Number**

- **ADG, IMDG, IATA**

UN3082

- **UN proper shipping name**

- **ADG**

- **IMDG**

- **IATA**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA), α,α -dimethylbenzyl hydroperoxide), MARINE POLLUTANT
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))

(Contd. on page 8)

AU

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 7)

· **Transport hazard class(es)**· **ADG**· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG, IATA**· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **Packing group**· **ADG, IMDG, IATA**

III

· **Environmental hazards:**· **Marine pollutant:**

No

Symbol (fish and tree)

· **Special marking (ADG):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

· **Hazard identification number (Kemler code):**

90

· **EMS Number:**

F-A,S-F

· **Stowage Category**

A

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

(-)

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 9)

Safety Data Sheet

according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 8)

· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (URETHANE
DIMETHACRYLATE (UDMA)), 9, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture**· Australian Inventory of Industrial Chemicals**

72869-86-4	Urethane Dimethacrylate (UDMA)
60676-86-0	Silica, vitreous
2530-85-0	3-trimethoxysilylpropyl methacrylate
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica
80-15-9	α,α -dimethylbenzyl hydroperoxide
6381-92-6	Ethylene diaminetetraacetic acid sodium salt
1879-09-0	6-tert-butyl-2,4-xlenol

· 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**

GHS05 GHS07

· Signal word Danger**· Hazard-determining components of labelling:**

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

· Hazard statements

Combustible liquid.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

Store locked up.

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

(Contd. on page 10)

Safety Data Sheet according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 9)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

- **Relevant phrases**
 - H227 Combustible liquid.
 - H242 Heating may cause a fire.
 - H302 Harmful if swallowed.
 - H310 Fatal in contact with skin.
 - H312 Harmful in contact with skin.
 - 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.
 - H335 May cause respiratory irritation.
 - H373 May cause damage to organs through prolonged or repeated exposure.
- **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)
 - DNEL: Derived No-Effect Level (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flammable liquids – Category 4: Flammable liquids – Category 4
 - Self-reactive substances and mixtures – Type C: Self-reactive substances and mixtures – Type C/D
 - Organic peroxides – Type E: Organic peroxides – Type E/F
 - Acute toxicity - oral – Category 4: Acute toxicity – Category 4
 - Acute toxicity - dermal – Category 2: Acute toxicity – Category 2
 - Acute toxicity - inhalation – Category 3: Acute toxicity – Category 3
 - Skin corrosion/irritation – Category 1A: Skin corrosion/irritation – Category 1A
 - Skin corrosion/irritation – Category 1B: Skin corrosion/irritation – Category 1B
 - 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
 - Specific target organ toxicity (repeated exposure) – Category 2: Specific target organ toxicity (repeated exposure) – Category 2
- **Sources**
 - ECHA (<http://echa.europa.eu/>)
 - EnviChem (www.echemportal.org)

(Contd. on page 11)

Safety Data Sheet
according to WHS Regulations

Date of issue: 27.06.2025

Version number 3

Revision: 27.06.2025

Trade name: G-CEM_ONE_Paste_B

(Contd. of page 10)

*** Data compared to the previous version altered.***This version replaces all previous versions.***Disclaimer:**

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.

—AU—