



Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Other means of identification
- · Trade name: TEMPSMART DC Paste A
- 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

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



- · Signal word Warning
- · Hazard-determining components of labelling:

Urethane Dimethacrylate (UDMA) (50-<75 %)

2,2'-ethylenedioxydiethyl dimethacrylate (10-<25 %)

· Hazard statements

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 skin irritation or rash occurs: Get medical advice/attention.

(Contd. on page 2)

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART DC Paste A

(Contd. of page 1)

Specific treatment (see on this label).

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 o	components:	
72869-86-4	Urethane Dimethacrylate (UDMA)	50-<75%
	Skin sensitisation – Category 1B, H317	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	10-<25%
	Skin sensitisation – Category 1B, H317	
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate	5-<10%
	Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319	
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	2.5-<5%
	Specific target organ toxicity (repeated exposure) – Category 2, H373	
1309-37-1	Iron(III)oxide	0.5-<1%
13463-67-7	titanium dioxide	0.5-<1%
	Carcinogenicity – Category 2, H351	
150-76-5	mequinol	0.2-<0.5%
	Acute toxicity - oral – Category 4, H302; Eye damage/irritation – Category 2A, H319; Skin sensitisation – Category 1, H317	

[·] 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. 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:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

(Contd. on page 3)

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART_DC_Paste_A

(Contd. of page 2)

- · 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.

Do not allow to penetrate the ground/soil.

· Methods and material for containment and cleaning up:

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.

Prevent formation of aerosols.

Avoid contact with the eves 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: None.
- · Specific end use(s) No further relevant information available.

AU ·

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART_DC_Paste_A

(Contd. of page 3)

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:
--------------------------------------	--------------------------------------

1309-37-1 Iron(III)oxide

WES Long-term value: 5 mg/m³

13463-67-7 titanium dioxide

WES Long-term value: 10 mg/m³

inhalable dust

150-76-5 mequinol

WES Long-term value: 5 mg/m³
Sen

· DNELs

13463-67-7 titanium dioxide

Inhalative | DNEL inhalation | 10 mg/m3 (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.

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: Yellow

(Contd. on page 5)

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART DC Paste A

(Contd. of page 4)

Odour:
Odour threshold:
pH-value:
Odourless
Not determined.
Not determined.

· Change in condition

Melting point/freezing point:
 Initial boiling point and boiling range:
 Undetermined.
 Flash point:
 Flammability
 Auto-ignition temperature:
 Decomposition temperature:
 Not determined.
 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):** 1.2 g/cm³ (10.014 lbs/gal)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

water: Insoluble.
 Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

• Dynamic: Not determined. • Kinematic: Not determined.

· Solvent content:

 \cdot 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 mm (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

· 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.

ΑU

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART DC Paste A

(Contd. of page 5)

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:							
72869-86-4 Urethane Dimethacrylate (UDMA)								
Oral	LD50	>5,000 mg/kg (rat female) (OECD 401)						
1309-37-1	1309-37-1 Iron(III)oxide							
Oral	LD50	>5,000 mg/kg (rat (f+m))						
13463-67-	13463-67-7 titanium dioxide							
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)						
Inhalative	LC50/4 h	>6.82 mg/l (rat male)						

- 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 (carcinogenity, 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)

- · 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:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

ΑU

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART_DC_Paste_A

(Contd. of page 6)

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.

Transport information		
· UN-Number · ADG, IMDG, IATA	UN3082	
· UN proper shipping name		
· ADG · IMDG	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA)) ENVIRONMENTALLY HAZARDOUS SUBSTANC	
·IATA	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA) MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANC. LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))	
Transport hazard class(es)		
· ADG		
· Class · Label	9 (M6) Miscellaneous dangerous substances and articles. 9	
· IMDG, IATA		
1 1 1 1 1 1 1 1 1 1		
· Class · Label	9 Miscellaneous dangerous substances and articles.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 Hazard identification number (Kemler code): EMS Number:	Warning: Miscellaneous dangerous substances and article 90 F-A,S-F	

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART_DC_Paste_A

	(Contd. of page
· Stowage Category	A
Transport in bulk according to Annex II of and the IBC Code	f Marpol 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
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
<u> </u>	SUBSTANCE, LIQUID, N.O.S. (URETHAN
	DIMETHACRYLATE (UDMA)), 9, III

15 Regulatory information

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

All ingredients are listed.

· 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



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Urethane Dimethacrylate (UDMA) (50-<75 %)

- 2,2'-ethylenedioxydiethyl dimethacrylate (10-<25 %)
- · Hazard statements

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.

(Contd. on page 9)

Date of issue: 10.07.2025 Version number 4 Revision: 10.07.2025

Trade name: TEMPSMART DC Paste A

(Contd. of page 8)

Wear protective gloves.

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

Specific treatment (see on this label).

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 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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

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

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

Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

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

Carcinogenicity – Category 2: Carcinogenicity – Category 2

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)
- * 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.

(Contd. on page 10)

 Date of issue: 10.07.2025
 Version number 4
 Revision: 10.07.2025

Trade name: TEMPSMART_DC_Paste_A

(Contd. of page 9)

AU