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Safety Data Sheet according to WHS Regulations

Printing date 16.08.2024

Version number 3

Revision: 16.08.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

- · Trade name: TEMPSMART_DC_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

Skin sensitisation – Category 1 Specific target organ toxicity (repeated exposure) – Category 2 H317 May cause an allergic skin reaction.

H373 May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· 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 %) Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (25-<50 %) 2,2'-ethylenedioxydiethyl dimethacrylate (10-<25 %)

· Hazard statements

May cause an allergic skin reaction.

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

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· Precautionary statements

Do not breathe 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.

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 d	components:		
72869-86-4	Urethane Dimethacrylate (UDMA)	50-<75%	
	Skin sensitisation – Category 1B, H317		
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	25-<50%	
	Specific target organ toxicity (repeated exposure) – Category 2, H373		
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	10-<25%	
	Skin sensitisation – Category 1B, H317		
67-43-6	N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)	0.2-<0.5%	
	Reproductive toxicity – Category 1B, H360D; Specific target organ toxicity (repeated exposure) – Category 2, H373; Acute toxicity - inhalation – Category 4, H332; Eye damage/irritation – Category 2A, H319		
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• 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.

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- 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 formation of dust. 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: Pick up mechanically. Prevent formation of dust. 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
- Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

- Avoid contact with the eyes and skin.
- *Information about fire and explosion protection: Dust can combine with air to form an explosive mixture. 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.

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• Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: 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.

- Do not inhale dust / smoke / mist.
- 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:	White	
· Odour:	Characteristic	
• Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition		
• Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling rate	nge: 283 °C (541.4 °F)	
· Flash point:	101 °C (213.8 °F)	
· Flammability (solid, gas):	Not determined.	
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• 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 applicable.	
• Density at 20 °C (68 °F):	1.3 g/cm ³ (10.8485 lbs/gal)	
Relative density	Not determined.	
· Vapour density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Insoluble.	
• Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
· Kinematic:	Not applicable.	
• Other information	No further relevant information available.	

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)

67-43-6 N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)

Inhalative LC50/4 h 1.5 mg/l (ATE)

· 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

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

• Aspiration hazard Based on available data, the classification criteria are not met.

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- Additional toxicological information:
- Repeated dose toxicity May cause damage to organs through prolonged or repeated exposure.
- 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.
- · Ecotoxical effects:
- Remark: Harmful to fish
- Additional ecological information:
- · General notes:
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. 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.

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

· UN-Number	
· ADG, IMDG, IATA	UN3077
· UN proper shipping name	
$\cdot ADG$	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANC
	SOLID, N.O.S. (Urethane Dimethacrylate (UDMA))
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC.
	SOLID, N.O.S. (Urethane Dimethacrylate (UDMA
	Butylated hydroxytoluene), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC.
	SOLID, N.O.S. (Urethane Dimethacrylate (UDMA))

Printing date 16.08.2024 Version number 3 Revision: 16.08.2024 Trade name: TEMPSMART DC Paste B (Contd. of page 6) • Transport hazard class(es) · ADG · Class 9 (M7) Miscellaneous dangerous substances and articles. · Label 9 · IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles. · Label 9 · Packing group · ADG, IMDG, IATA Ш • Environmental hazards: · Marine pollutant: No Symbol (fish and tree) Symbol (fish and tree) · Special marking (ADG): · Special marking (IATA): Symbol (fish and tree) · Special precautions for user Warning: Miscellaneous dangerous substances and articles. · Hazard identification number (Kemler code): 90 F-A, S-F· EMS Number: · Stowage Category Α SW23 When transported in BK3 bulk container, see 7.6.2.12 · Stowage Code and 7.7.3.9. · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: ·ADG · Limited quantities (LQ) 5 kg Code: E1 • Excepted quantities (EQ) *Maximum net quantity per inner packaging: 30 g* Maximum net quantity per outer packaging: 1000 g · Transport category 3 · Tunnel restriction code (-) · IMDG · Limited quantities (LQ) 5 kg Code: El · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g (Contd. on page 8) AU

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· UN "Model Regulation":

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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)

68909-20-6 Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

109-16-0 2,2'-ethylenedioxydiethyl dimethacrylate

112945-52-5 Silicon dioxide

13122-18-4 tert-butylperoxy-3,5,5-trimethylhexanoate (not more than 42%, and inert solid not less than 58%)

67-43-6 N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)

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*



· Signal word Warning

· Hazard-determining components of labelling: Urethane Dimethacrylate (UDMA) (50-<75 %) Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica (25-<50 %) 2,2'-ethylenedioxydiethyl dimethacrylate (10-<25 %) · Hazard statements May cause an allergic skin reaction. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. · Precautionary statements Do not breathe 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. 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

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\cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information · Relevant phrases H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H360D May damage the unborn child. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute toxicity - inhalation - Category 4: Acute toxicity - Category 4 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 Reproductive toxicity - Category 1B: Reproductive toxicity - Category 1B 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.