

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand
specific information for this product and must be read in conjunction with the Safety Data
Sheet (SDS) attached

Product Name:	G-CEM LinkForce Paste A & Paste B
Manufacturer:	GC Corporation
SDS Expiry:	1 December 2028
Supplier Details:	Henry Schein New Zealand 243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	6/9
HSNO Group Standard:	Dental Products Subsidiary Hazard Group Standard 2020 HSR002558
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared – May 2025

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.





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Safety Data Sheet in accordance with HSNO

Printing date 01.12.2023

Version number 2

Revision: 01.12.2023

1 Identification of the substance or mixture and of the supplier

· Product identifier

• Trade name: G-CEM_LinkForce_Paste_A_(Base)

• *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** Henry Schein Dental

243-249 Bush Road, Rosedale Auckland 0632, NEW ZEALAND

Free Phone: 0800 808 855

Further information obtainable from: Regulatory affairs
 Emergency telephone number: 0800 764 766 (National Poisons Centre)

2 Hazards identification

· Classification of the substance or mixture

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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)
Hazard statements May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations.

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• Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/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 compone	ents:	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	10-<25%
EINECS: 276-957-5	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
	2,2-dimethyl-1,3-propanediyl bismethacrylate	5-<10%
EINECS: 217-856-8	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
	titanium dioxide	0.5-<1%
EINECS: 236-675-5	Carc. 2, H351	
	2,2'-[(4-methylphenyl)imino]bisethanol	0.5-<1%
EINECS: 221-359-1	Acute Tox. 3, H301; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
· Additional informati	ion: 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.
- 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, sand, extinguishing powder. Do not use water.

• For safety reasons unsuitable extinguishing agents: Water

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- 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 eyes and skin.
- · Information about fire and explosion protection: Protect against electrostatic charges.

· 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/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:

13463-67-7 titanium dioxide

WES (New Zealand) Long-term value: 10 mg/m³

· 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.

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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 · Odour: Unpleasant • Odour threshold: Not determined. Not determined. · pH-value: · Change in condition • *Melting point/freezing point:* Undetermined. • Initial boiling point and boiling range: 190 °C *Not applicable.* · Flash point: Not applicable. • Flammability (solid, gas): Undetermined. • Auto-ignition temperature: • Decomposition temperature: Not determined. Product is not selfigniting. · Ignition temperature: Product does not present an explosion hazard. • Explosive properties: • Explosion limits: · Lower: Not determined. · Upper: Not determined. · Vapour pressure: Not determined. · Density at 20 °C: 1.72 g/cm³ Not determined. · Relative density Not determined. · Vapour density (Contd. on page 5)

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· 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:		
· <i>VOC (EC)</i>	0.0 g/l	
· 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)

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

13463-67-7 titanium dioxide

Oral

Oral

LD50 >5,000 mg/kg (mouse) (OECD 420)

Inhalative LC50/4 h > 6.82 mg/l (rat male)

• 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.

 $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$

 \cdot **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.

• Additional toxicological information:

• *Repeated dose toxicity No further relevant information available.*

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

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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.

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		
· NZS, ADN, IMDG, IATA	not regulated	
· UN proper shipping name		
· NZS, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· NZS, ADN, IMDG, IATA		
· Class	not regulated	
· Packing group		
· NZS, IMDG, IATA	not regulated	
Environmental hazards:		
· Marine pollutant:	No	
Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I	I of Marpol	
and the IBC Code	Not applicable.	

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· UN "Model Regulation":

not regulated

15 Regulatory information

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

nd Inventory of Chemicals
Glass, oxide, chemicals
Urethane Dimethacrylate (UDMA)
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate
2,2-dimethyl-1,3-propanediyl bismethacrylate
3-trimethoxysilylpropyl methacrylate
titanium dioxide
2,2'-[(4-methylphenyl)imino]bisethanol
magnesium oxide
silicon dioxide
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica
ethyl 4-dimethylaminobenzoate
Camphorquinone
2,2'-ethylenedioxydiethyl dimethacrylate
Iron(III)oxide
Iron hydroxide oxide
Silane, dichlorodimethyl-, reaction products with silica
6-tert-butyl-2,4-xylenol

• *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)
- · Hazard statements
- May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
- · Precautionary statements

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

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

Avoid release to the environment.

Wear protective gloves.

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

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

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· Directive 2012/18/EU

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

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

16 Other information

· Relevant phrases

H301 Toxic if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

· 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 Tox. 3: Acute toxicity – Category 3

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category $\tilde{2}$

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· Sources

• ECHA (http://echa.europa.eu/)

• EnviChem (www.echemportal.org)

• * Data compared to the previous version altered.

This version replaces all previous versions.

Disclaimer:

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1 Identification of the substance or mixture and of the supplier

- · Product identifier
- Trade name: G-CEM_LinkForce_Paste_B_(Catalyst)

• **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** Henry Schein Dental

243-249 Bush Road, Rosedale Auckland 0632, NEW ZEALAND

Free Phone: 0800 808 855

Further information obtainable from: Regulatory affairs
 Emergency telephone number: 0800 764 766 (National Poisons Centre)

2 Hazards identification

· Classification of the substance or mixture

0 0	
Flam. Liq. 4	H227 Combustible liquid.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT RE 2	H373 May cause damage to the lung through prolonged or repeated exposure. Route of
	exposure: Inhalation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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) Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica 2,2'-ethylenedioxydiethyl dimethacrylate
Hazard statements Combustible liquid. May cause an allergic skin reaction. May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. Harmful to aquatic life with long lasting effects.

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· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.

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

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Store in a well-ventilated place.

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/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 compone	ents:	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	10-<25%
EINECS: 276-957-5	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	5-<10%
EINECS: 203-652-6	Skin Sens. 1, H317	
CAS: 41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-	5-<10%
	methylprop-2-enoic acid.	
	Aquatic Chronic 4, H413	
CAS: 94-36-0	Dibenzoyl peroxide	0.5-<1%
EINECS: 202-327-6	Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	1-<2.5%
EINECS: 272-697-1	STOT RE 2, H373	
CAS: 128-37-0	Butylated hydroxytoluene	0.1-<0.2%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

• 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.

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Trade name: G-CEM_LinkForce_Paste_B_(Catalyst)

• 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, 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. 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 eyes and skin.
- · Information about fire and explosion protection: Protect against electrostatic charges.

· 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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Trade name: G-CEM_LinkForce_Paste_B_(Catalyst)

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

8 Exposure controls/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.

· DNELs

128-37-0 Butylated hydroxytoluene

Dermal DNEL dermal 0.5 mg/kg bw/day (man)

Inhalative DNEL inhalation 3.5 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:
- · Colour:
- · Odour:
- Odour threshold:
- · pH-value:

Light beige Alcohol-like Not determined. Not determined.

Pasty

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· Change in condition		
· Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range.	Undetermined.	
· Flash point:	92 °C	
· Flammability (solid, gas):	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:	1.74 g/cm^3	
· 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:		
\cdot VOC (EC)	0.0 g/l	
• 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)

128-37-0 Butylated hydroxytoluene

Oral LD50 >6,000 mg/kg (rat (f+m)) (OECD 401)

• 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.

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Trade name: G-CEM_LinkForce_Paste_B_(Catalyst)

- · 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.
- 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)

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 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.

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.

14 Transport information

· UN-Number

· NZS, IMDG, IATA

UN3082

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	(Contd. of page
UN proper shipping name	
NZS	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA)
IATA	Butylated hydroxytoluene), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCI
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))
Transport hazard class(es)	
NZS	
9 V	
Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
\mathbb{V} \vee	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
Packing group	
NZS, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special marking (NZS):	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 E 4 S E
EMS Number: Stowage Category	F-A,S-F
Stowage Category	<u>A</u>
Transport in bulk according to Annex II of Marp and the IBC Code	ool Not applicable.
Transport/Additional information:	
NZS	5L
Limited quantities (LQ) Excepted quantities (EQ)	SL Code: El
Excepted quantities (EQ)	<i>Maximum net quantity per inner packaging: 30 ml</i>
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	(-)
· · · · · · · · · · · · · · · · · · ·	(Contd. on page

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	(Contd. of page 7)	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· 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

- · New Zealand Inventory of Chemicals
- All ingredients are listed.
- *GHS label elements* The product is classified and labelled according to the Globally Harmonised System (GHS). *Hazard pictograms*



GHS0/ GHS08

· Signal word Warning

- *Hazard-determining components of labelling:* Urethane Dimethacrylate (UDMA)
- Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica 2,2'-ethylenedioxydiethyl dimethacrylate
- · Hazard statements
- *Combustible liquid.*

May cause an allergic skin reaction.

May cause damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation. Harmful to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.

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

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Store in a well-ventilated place.

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

16 Other information

· Relevant phrases

H241 Heating may cause a fire or explosion.

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H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
· 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 Flam. Liq. 4: Flammable liquids – Category 4
Org. Perox. B: Organic peroxides – Type B
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
Sources
• ECHA (http://echa.europa.eu/)
• EnviChem (www.echemportal.org)
* Data compared to the previous version altered.
This version replaces all previous versions.
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