

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-aenial A'CHORD
Manufacturer:	GC Corporation
SDS Expiry:	19 June 2025
Supplier Details:	Henry Schein New Zealand 23 William Pickering Drive, Albany 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 on July 2021

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

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1 Identification of the substance or mixture and of the supplier

· Product identifier

· Trade name: GC G-aenial A'CHORD

• *Relevant identified uses of the substance or mixture and uses advised against* No further relevant information available.

· Application of the substance / the mixture Auxiliary for dental technology

• Details of the supplier of the safety data sheet Henry Schein Dental 23 William Pickering Drive, Albany Auckland 0632, NEW ZEALAND

PO Box 101140, NSMC Auckland 0745, 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

Acute Tox. 5	H333	May be harmful if inhaled.
Skin Corr. 3	H316	Causes mild skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Acute 3	H402	Harmful to aquatic life.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· Label elements

· GHS label elements

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. 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)
6-tert-butyl-2, 4-xylenol
2,2'-ethylenedioxydiethyl dimethacrylate (octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate

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Hazard statements
May be harmful if inhaled.
Causes mild skin irritation.
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 INHALED: Call a POISON CENTER/doctor if you feel unwell.

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 CAS: 41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-	10-<25%
	methylprop-2-enoic acid.	
	Aquatic Chronic 4, H413	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	2.5-<5%
EINECS: 276-957-5	Skin Sens. 1, H317	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	2.5-<5%
EINECS: 203-652-6	Skin Sens. 1, H317	
CAS: 1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate	1-<2.5%
EINECS: 217-856-8	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
CAS: 43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	1-<2.5%
EINECS: 256-062-6	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 1309-37-1	Iron(III)oxide	1-<2.5%
EINECS: 215-168-2		
CAS: 5870-38-2	Diethyl 2,5-dihydroxyterephthalate	1-<2.5%
EINECS: 227-522-3	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 13463-67-7	titanium dioxide	1-<2.5%
EINECS: 236-675-5		
CAS: 128-37-0	Butylated hydroxytoluene	≥0.25-<0.5%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 1879-09-0	6-tert-butyl-2,4-xylenol	0.1-<0.2%
EINECS: 217-533-1	<i>Acute Tox. 2, H310; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Acute 2, H401</i>	
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		(Contd. of page 2)
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.1-<0.2%
EINECS: 278-355-8	Repr. 2, H361	
. Additional informat	ion. For the wording of the listed hereard physics refer to section 16	

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

4 First aid measures

· Description of 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:
- \cdot 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

- · Extinguishing media
- 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.
- · Advice for firefighters
- · 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.

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· 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

Ensure good ventilation/exhaustion at the workplace.

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.

- · Conditions for safe storage, including any incompatibilities
- · 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 infor • Control parame		<i>t design of technical facilities:</i> No further data; see item 7.	
-		that require monitoring at the workplace:	
1309-37-1 Iron	(III)oxide		
WES (New Zeald	and) Long-te as Fe	rm value: 5 mg/m³	
13463-67-7 tital	nium dioxide		
WES (New Zeald	and) Long-te	rm value: 10 mg/m ³	
128-37-0 Butyla	ted hydroxyt	oluene	
TWA (New Zeald	and) Long-te	rm value: 10 mg/m ³	
WES (New Zeald	and) Long-te	rm value: 10 mg/m³	
· DNELs			
13463-67-7 tital	nium dioxide		
Inhalative DNE	L inhalation	10 mg/m3 (man)	
128-37-0 Butyla	ited hydroxyt	oluene	
Dermal DNE	L dermal	0.5 mg/kg bw/day (man)	
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Inhalative DNEL inhalation 3.5 mg/m3 (man)

1879-09-0 6-tert-butyl-2,4-xylenol
Inhalative DNEL inhalation 0.14 mg/m3 (man)
Additional information: The lists valid during the making were used as basis.
Exposure controls
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.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing • Respiratory protection: Suitable respiratory protective device recommended.
Protection of hands:
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
Physical and chemical properties
Information on basic physical and chemical properties General Information

· General Information		
· Appearance:		
Form:	Pasty	
Colour:	According to product specification	
· Odour:	Odourless	
• Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	: Undetermined.	
· Flash point:	Not applicable.	
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· Flammability (solid, gas):	Not determined.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto-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:	Not determined.
·	$2,56 \text{ g/cm}^3$
	1,18g/ml
· 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.

· Chemical stability

- 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

· 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 Iron(III)oxide

Oral LD50 >5,000 mg/kg (rat (f+m))

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		(Contd. of page
13463-67-	7 titanium	dioxide
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)
Inhalative	LC50/4 h	>6.82 mg/l (rat male)
128-37-01	Butylated h	ydroxytoluene
Oral	LD50	>6,000 mg/kg (rat (f+m)) (OECD 401)
1879-09-0	6-tert-buty	yl-2,4-xylenol
Oral	LD50	910 mg/kg (rat (f+m)) (OECD 401)
Dermal	LD50	<200 mg/kg (rabbit) (OECD 402)
· Primary ir		
· Skin corro	sion/irrita	tion No irritant effect.

· Serious eye damage/irritation No irritating effect.

• **Respiratory or skin sensitisation** Sensitisation possible through skin contact.

• **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)

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**

• Results of PB1 and vPvB assessme

• *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.

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14 Transport information · UN-Number · ADR, IMDG, IATA not regulated · UN proper shipping name · ADR, IMDG, IATA not regulated · Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class not regulated · Packing group · ADR, ĬMDG, IATA not regulated • Environmental hazards: Not applicable. · Special precautions for user Not applicable. · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · UN "Model Regulation": not regulated

15 Regulatory information

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

· New Zealan	d Inventory of Chemicals
65997-17-3	Glass, oxide, chemicals
41637-38-1	<i>Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid.</i>
2530-85-0	3-trimethoxysilylpropyl methacrylate
72869-86-4	Urethane Dimethacrylate (UDMA)
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate
43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate
1309-37-1	Iron(III)oxide
1317-61-9	triiron tetraoxide
13463-67-7	titanium dioxide
20344-49-4	Iron hydroxide oxide
	Silane, dichlorodimethyl-, reaction products with silica
60676-86-0	Silica, vitreous
128-37-0	Butylated hydroxytoluene
1879-09-0	6-tert-butyl-2,4-xylenol
6197-30-4	octocrilene
10287-53-3	ethyl 4-dimethylaminobenzoate
10373-78-1	Camphorquinone
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
78-67-1	2,2'-dimethyl-2,2'-azodipropiononitrile
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	roval numbers	1
41637-38-1	<i>Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-meth 2-enoic acid.</i>	ylprop- HSR00729
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	HSR00376
128-37-0	Butylated hydroxytoluene	HSR00278
1879-09-0	6-tert-butyl-2,4-xylenol	HSR00362
GHS label e Hazard pict	<i>lements</i> The product is classified and labelled according to the Globally Harmo ograms	nised System (GHS)
GHS07		
Signal word	Warning	
	ermining components of labelling:	
	imethacrylate (UDMA)	
6-tert-butyl-		
	edioxydiethyl dimethacrylate	
	4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	
Hazard stat		
	nful if inhaled.	
	skin irritation.	
	ın allergic skin reaction.	
	aquatic life with long lasting effects.	
	iry statements	
	hing dust/fume/gas/mist/vapours/spray.	
	ed work clothing should not be allowed out of the workplace.	
	se to the environment.	
Wear protec		
	D: Call a POISON CENTER/doctor if you feel unwell.	
Dispose of c	ontents/container in accordance with local/regional/national/international regu	lations.
Directive 20)12/18/EU	
Named dan	gerous substances - ANNEX I None of the ingredients is listed.	
	<i>ifety assessment:</i> A Chemical Safety Assessment has not been carried out.	

16 Other information

Relevant phrasesH302 Harmful if swallowed.H310 Fatal in contact with skin.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.H361 Suspected of damaging fertility or the unborn child.H373 May cause damage to organs through prolonged or repeated exposure.H400 Very toxic to aquatic life.

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H401 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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internationa
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)
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. 4: Acute toxicity - oral – Category 4 Acute Tox. 2: Acute toxicity - dormal – Category 2
Acute Tox. 2: Acute toxicity - dermal – Category 2 Acute Tox. 3: Acute toxicity - inhalation – Category 3
Acute Tox. 5: Acute toxicity - inhalation – Category 5 Acute Tox. 5: Acute toxicity - inhalation – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Corr. 3: Skin corrosion/irritation – Category 3
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single experime) – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 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 Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
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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limits our lightlity for death or personal injury equeed by our predicence or for frequentian misrapresentation

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