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## 1 Identification of the substance or mixture and of the supplier

- · Other means of identification
- · Trade name: 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

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 sensitisation Category 1

H317 May cause an allergic skin reaction.

Hazardous to the aquatic environment chronic Category 3H412 Harmful to aquatic life with long lasting effects.

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- · 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:

2,2'-ethylenedioxydiethyl dimethacrylate

Urethane Dimethacrylate (UDMA)

(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate

· 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.

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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.

- · 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: 41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid.	10-<25%
	Hazardous to the aquatic environment chronic Category 4, H413	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	2.5-<5%
EINECS: 203-652-6	Skin sensitisation Sub-category 1B, H317	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	2.5-<5%
EINECS: 276-957-5	Hazardous to the aquatic environment chronic Category 2, H411; Skin sensitisation Sub-category 1B, H317	
CAS: 1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate	1-<2.5%
EINECS: 217-856-8	Skin irritation Category 2, H315; Eye irritation Category 2, H319	
CAS: 43048-08-4	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate	1-<2.5%
EINECS: 256-062-6	Skin irritation Category 2, H315; Eye irritation Category 2, H319; Skin sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335	
CAS: 1309-37-1 EINECS: 215-168-2	Iron(III)oxide	0.5-<1%
CAS: 13463-67-7	titanium dioxide	0.5-<1%
EINECS: 236-675-5	Carcinogenicity – Category 2, H351	
CAS: 60676-86-0 EINECS: 262-373-8	Silica, vitreous	1-<2.5%
CAS: 128-37-0	Butylated hydroxytoluene	≥0.25-<0.5%
EINECS: 204-881-4	Hazardous to the aquatic environment acute Category 1, H400; Hazardous to the aquatic environment chronic Category 1, H410	
CAS: 1879-09-0	6-tert-butyl-2,4-xylenol	0.1-<0.2%
EINECS: 217-533-1	Acute dermal toxicity Category 2, H310; Specific target organ toxicity - repeated exposure Category 2, H373; Acute oral toxicity Category 4, H302; Skin irritation Category 2, H315; Eye irritation Category 2, H319	

<sup>·</sup> 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.

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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
- · 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.

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### 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:

Protect against electrostatic charges.

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

8 Exposure contro	ls/	personal	protection
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· Appropriate engineering controls No further data; see section 7.

· Ingredients	· Ingredients with limit values that require monitoring at the workplace:		
1309-37-1 II	1309-37-1 Iron(III)oxide		
WES (New Zealand)   Long-term value: 5 mg/m³			
	as Fe, v	V	
13463-67-7	13463-67-7 titanium dioxide		
WES (New Z	,	rm value: 10 mg/m³	
	interim	WES	
60676-86-0	60676-86-0 Silica, vitreous		
WES (New Z		rm value: 0.2 mg/m³	
	respirat		
128-37-0 Bu	128-37-0 Butylated hydroxytoluene		
TWA (New Z	TWA (New Zealand) Long-term value: 10 mg/m³		
WES (New Z	WES (New Zealand) Long-term value: 10 mg/m³		
	dsen		
· DNELs			
13463-67-7	titanium dioxide		
Inhalative L	ONEL inhalation	10 mg/m3 (man)	
128-37-0 Bu	128-37-0 Butylated hydroxytoluene		
Dermal L	ONEL dermal	0.5 mg/kg bw/day (man)	
Inhalative L	ONEL inhalation	3.5 mg/m3 (man)	
1879-09-0 6	1879-09-0 6-tert-butyl-2,4-xylenol		
Inhalative L	ONEL inhalation	0.14 mg/m3 (man)	
4 1 1000 1 1	C Tl	lists valid during the making were used as basis	

- · 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.

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Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

- · Respiratory protection: Suitable respiratory protective device recommended.
- · Protection of hands:



Protective gloves

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

· General Information

· Appearance:

· Form: Pasty

· Colour: According to product specification

Odour:
Odour less
Not determined.
pH-value:
Not applicable.

· Change in condition

Melting point/freezing point:
 Initial boiling point and boiling range:
 Flash point:
 Flammability
 Auto-ignition temperature:
 Decomposition temperature:
 Undetermined.
 Not determined.
 Not determined.

• **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:
Not determined.
Vapour pressure:
Not applicable.
Density at 20 °C:
Relative density
Not applicable.
Vapour density
Not applicable.
Not applicable.
Not applicable.
Not applicable.

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· Solubility in / Miscibility with

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

· Viscosity:

• Dynamic: Not applicable. • Kinematic: Not applicable.

· Other information

• Particle characteristics Not determined.

· Physical state Solid

## 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 v	· LD/LC50 values relevant for classification:		
72869-86-4	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))	
13463-67-2	13463-67-7 titanium dioxide		
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)	
Inhalative	LC50/4 h	>6.82 mg/l (rat male)	
128-37-0 B	128-37-0 Butylated hydroxytoluene		
Oral	LD50	>6,000 mg/kg (rat (f+m)) (OECD 401)	
1879-09-0	1879-09-0 6-tert-butyl-2,4-xylenol		
Oral	LD50	910 mg/kg (rat (f+m)) (OECD 401)	
Dermal	LD50	<200 mg/kg (rabbit) (OECD 402)	

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eve 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.

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- · 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)

#### 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.
- · 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.

### 14 Transport information

- · UN-Number
- · NZS, IMDG, IATA not regulated
- · UN proper shipping name
- · NZS, IMDG, IATA not regulated
- · Transport hazard class(es)
- · NZS, ADN, IMDG, IATA
- · Class not regulated

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Packing group NZS, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex I and the IBC Code	<b>I of Marpol</b> Not applicable.	
UN "Model Regulation":	not regulated	

## 15 Regulatory information

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

AT 77 1	
	d Inventory of Chemicals
65997-17-3	Glass, oxide, chemicals
41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid.
2530-85-0	3-trimethoxysilylpropyl methacrylate
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate
72869-86-4	Urethane Dimethacrylate (UDMA)
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
60676-86-0	Silica, vitreous
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica
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
78-67-1	2,2'-dimethyl-2,2'-azodipropiononitrile
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

### · HSNO Approval numbers

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

HSR003625

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



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#### · Signal word Warning

#### · Hazard-determining components of labelling:

2,2'-ethylenedioxydiethyl dimethacrylate

Urethane Dimethacrylate (UDMA)

(octahydro-4,7-methano-1H-indenediyl)bis(methylene) bismethacrylate

#### · 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.

- · 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

H302 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.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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)

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 oral toxicity Category 4: Acute toxicity - Category 4

Acute dermal toxicity Category 2: Acute toxicity – Category 2 Skin irritation Category 2: Skin corrosion/irritation – Category 2

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

Skin sensitisation Category 1: Skin sensitisation – Category 1

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Skin sensitisation Sub-category 1B: Skin sensitisation – Category 1B

Carcinogenicity – Category 2: Carcinogenicity – Category 2

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

Specific target organ toxicity - repeated exposure Category 2: Specific target organ toxicity (repeated exposure) – Category 2

Hazardous to the aquatic environment acute Category 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Hazardous to the aquatic environment chronic Category 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

Hazardous to the aquatic environment chronic Category 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Hazardous to the aquatic environment chronic Category 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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