

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

1 Identification of the substance or mixture and of the supplier

- · Other means of identification
- · Trade name: G-aenial FLO X
- 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 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.

- · 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)

2,2'-ethylenedioxydiethyl dimethacrylate

· 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.

(Contd. on page 2)

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 1)

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		
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: 72869-86-4	Urethane Dimethacrylate (UDMA)	5-<10%
EINECS: 276-957-5	Hazardous to the aquatic environment chronic Category 2, H411; Skin sensitisation Sub-category 1B, H317	
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	2.5-<5%
EINECS: 203-652-6	Skin sensitisation Sub-category 1B, H317	
CAS: 1309-37-1	Iron(III)oxide	0.5-<1%
EINECS: 215-168-2		
CAS: 9003-08-1	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde	0.5-<1%
	Serious eye damage Category 1, H318; Skin sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335	
CAS: 13463-67-7	titanium dioxide	0.5-<1%
EINECS: 236-675-5	Carcinogenicity – Category 2, H351	
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	
CAS: 2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	0.1-<0.2%
EINECS: 219-470-5	Acute inhalation toxicity Category 3, H331; Skin sensitisation Category 1, H317	

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

4 First aid measures

· General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 2)

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.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Allow to evaporate.

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.

(Contd. on page 4)

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 3)

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 controls/personal protection

· Appropriate engineering controls No further data; see section 7.

· Ingredients with limit values that require monitoring at the workplace:			
1309-37-1 Iron(III)oxide			
	Long-term value: 5 mg/m³		
C	as Fe, w		
13463-67-7 titanium (13463-67-7 titanium dioxide		
	WES (New Zealand) Long-term value: 10 mg/m³		
i	interim WES		
· DNELs			
13463-67-7 titanium dioxide			
Inhalative DNEL inho	alation 10 mg/m3 (man)		
1879-09-0 6-tert-butyl-2,4-xylenol			
Inhalative DNEL inha	alation 0.14 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.

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:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Suitable respiratory protective device recommended.

· Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



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.

(Contd. on page 5)

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 4)

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

· Change in condition

Melting point/freezing point:
 Initial boiling point and boiling range: 180 °C
 Flash point:
 Flammability
 Auto-ignition temperature:
 Decomposition temperature:
 Not determined.
 Not determined.

• Ignition temperature: Product is not selfigniting.

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

· Explosion limits:

Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not applicable.
Density: Not determined.
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

• Particle characteristics SiO2: Diameter particle structure = 2.5 - 50 nm (TEM, d50, number-

based)

Diameter agglomerate = 5 - 50 mm (laser diffraction dry module, d50,

volume based)

· Physical state Solid

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 5)

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	· LD/LC50 values relevant for classification:		
72869-86-	72869-86-4 Urethane Dimethacrylate (UDMA)		
Oral	LD50	>5,000 mg/kg (rat female) (OECD 401)	
1309-37-1	1309-37-1 Iron(III)oxide		
Oral	LD50	>5,000 mg/kg (rat (f+m))	
13463-67-	13463-67-7 titanium dioxide		
Oral	LD50	>5,000 mg/kg (mouse) (OECD 420)	
Inhalative	LC50/4 h	>6.82 mg/l (rat male)	
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)	
2440-22-4	2440-22-4 2-(2H-benzotriazol-2-yl)-p-cresol		
Oral	LD50	10,000 mg/kg (rat (f+m))	
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))	

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Interactive effects
- · Repeated dose toxicity No further relevant information available.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 No further relevant information available.

NZ.

 Date of issue: 07.07.2025
 Version number 6
 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 6)

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	T of Marpol	
and the IBC Code	Not applicable.	

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial_FLO_X

(Contd. of page 7)

· UN "Model Regulation":

not regulated

15 Regulatory information

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

· New Zealan	· New Zealand 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		
72869-86-4	Urethane Dimethacrylate (UDMA)		
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate		
68611-44-9	Silane, dichlorodimethyl-, reaction products with silica		
1309-37-1	Iron(III)oxide		
1309-38-2	Iron (II,III) oxide		
7128-64-5	2,5-Thiophendiylbis(5-tert-butyl-1,3-benzoxazol)		
9003-08-1	1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde		
13463-67-7	titanium dioxide		
20344-49-4	Iron hydroxide oxide		
10287-53-3	ethyl 4-dimethylaminobenzoate		
1879-09-0	6-tert-butyl-2,4-xylenol		
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol		
10373-78-1	Camphorquinone		
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



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

Urethane Dimethacrylate (UDMA)

2,2'-ethylenedioxydiethyl dimethacrylate

· 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.

(Contd. on page 9)

Trade name: G-aenial FLO X

(Contd. of page 8)

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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

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:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

Acute inhalation toxicity Category 3: Acute toxicity – Category 3

Acute inhalation toxicity Category 3: Acute toxicity – Category 3

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

Serious eye damage Category 1: Serious eye damage/eye irritation – Category 1

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

Skin sensitisation Category 1: Skin sensitisation – Category 1

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 chronic Category 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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 (Contd. on page 10)

Date of issue: 07.07.2025 Version number 6 Revision: 07.07.2025

Trade name: G-aenial FLO X

(Contd. of page 9)

- ·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.

17