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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 03.08.2018

Version number 5

Revision: 22.06.2017

SECTION 1: Identification

- · 1.1 Product identifier
- · Trade name: GC G-aenial Anterior
- 1.2 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
- \cdot 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax +32/(0)16/40.26.84 msds@gc.dental

· Information department: Regulatory affairs

· 1.4 Emergency telephone number: International: +01-813-248-0585 (ChemTel Inc.)

SECTION 2: Hazard(s) identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.

Acute Tox. 4 H302 Harmful if swallowed.

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

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. The product is classified and labeled according to the CLP regulation.

· Hazard pictograms



· Signal word Warning

Hazard-determining components of labeling: Ytterbium trifluoride Urethane Dimethacrylate (UDMA) 2-(2H-benzotriazol-2-yl)-p-cresol
Hazard statements H302 Harmful if swallowed. H317 May cause an allergic skin reaction.
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.

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P280 Wear protective gloves. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterization: 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	components:	
72869-86-4	Urethane Dimethacrylate (UDMA)	10-<25%
	Skin Sens. 1, H317	
13760-80-0	Ytterbium trifluoride	5-<10%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	
1985-51-9	2,2-dimethyl-1,3-propanediyl bismethacrylate	2.5-<5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	0.1-<0.2%
	Acute Tox. 2, H330; Aquatic Chronic 1, H410; Skin Sens. 1, H317	1
· Additional i	nformation: For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First-aid measures

· 4.1 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. Do not use mouth to mouth or mouth to nose resuscitation.

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:

Do not induce vomiting; immediately call for medical help.

Rinse out mouth and then drink plenty of water.

• 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

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• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- \cdot For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Remove persons from danger area. Avoid contact with the eyes and skin. Wear protective clothing.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities.
6.3 Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material. Dispose of the collected material according to regulations.
6.4 Reference to other sections See Section 7 for information on safe handling.

See Section / for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Avoid contact with the eyes and skin.

• Information about protection against explosions and fires: No special measures required.

· 7.2 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.

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

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Avoid contact with the eyes and skin.
 Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing.
- · Breathing equipment: 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

SECTION 9: Physical and chemical properties

- \cdot 9.1 Information on basic physical and chemical properties
- General Information
- · Appearance: Form:
- Color:
- · Odor:
- · Odor threshold:
- · pH-value:

- Pasty According to product specification Odorless Not determined. Not determined.

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Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	>150 °C	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
VÕC (EC)	0.0 g/l	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- \cdot 11.1 Information on toxicological effects
- Acute toxicity:

Harmful if swallowed.

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		are relevant for classification:	
72869-86-		e Dimethacrylate (UDMA)	
Oral	LD50	> 5000 mg/kg (rat female) (OECD 401)	
2440-22-4	2-(2H-bei	zotriazol-2-yl)-p-cresol	
Oral	LD50	10000 mg/kg (rat (f+m))	
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))	
on the eye Sensitizati May cause	n: Based o : Based on on: e an allerge	a available data, the classification criteria are not met. available data, the classification criteria are not met. c skin reaction. c cal information:	
	-	onal Safety & Health Administration)	
	· -	ts is listed.	
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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

18 00 00 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)

18 01 00 wastes from natal care, diagnosis, treatment or prevention of disease in humans

18 01 06* chemicals consisting of or containing hazardous substances

· Uncleaned packagings:

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

SECTION 14: Transport informat	tion
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	not regulated
 14.4 Packing group ADR, IMDG, IATA 	not regulated
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Not applicable.
• 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.
· UN ''Model Regulation'':	not regulated

SECTION 15: Regulatory information

 \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
• TLV (Threshold Limit Value established by ACGIH)	
13760-80-0 Ytterbium trifluoride	A4
1309-37-1 Iron(III)oxide	A4
13463-67-7 titanium dioxide	A4
· MAK (German Maximum Workplace Concentration)	·
13463-67-7 titanium dioxide	3A
· NIOSH-Ca (National Institute for Occupational Safety and Health)	

· Directive 2012/18/EU

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

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

SECTION 16: Other information

Relevant		
Н301 Тох	if swallowed.	
Н311 Тох	in contact with skin.	
H315 Cat	es skin irritation.	
Н317 Ма	ause an allergic skin reaction.	
H319 Cat	es serious eye irritation.	
H330 Fat	if inhaled.	
	if inhaled.	
	oxic to aquatic life with long lasting effects.	
	on according to Regulation (EC) No 1272/2008 Calculation method	
Departme	issuing SDS: Regulatory affairs	
Contact:	ds@gc.dental	
Abbrevia	ns and acronyms:	
	européen sur le transport des marchandises dangereuses par Route (European Agreement concer	ning the International
0 0	ingerous Goods by Road)	
	ttional Maritime Code for Dangerous Goods	
	ional Air Transport Association Harmonised System of Classification and Labelling of Chemicals	
	can Conference of Governmental Industrial Hygienists	
	pean Inventory of Existing Commercial Chemical Substances	
	pean List of Notified Chemical Substances	
	l Abstracts Service (division of the American Chemical Society)	
	Organic Compounds (USA, EU) concentration, 50 percent	
LCJU. Leini	oncentration, so percent	(Contd. on page 9)
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LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Acute Tox. 2: Acute toxicity – Category 2	
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	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
· 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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