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

Printing date 03.05.2024

Version number 2 (replaces version 1)

Revision: 19.02.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: GC_Fuji_ORTHO_LC_CAPSULE

• 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

• 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: Hazards identification

· 2.1 Classification of the substance or mixture

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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

· 2.2 Label elements

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

The product is classified and labeled according to the CLP regulation.

· Hazard pictograms



· Signal word Warning

Hazard-determining components of labeling:
2-hydroxyethyl metacrylate
Urethane Dimethacrylate (UDMA)
Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves / eye protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

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P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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:		
868-77-9	2-hydroxyethyl metacrylate	5-<10%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
9003-01-4	Polyacrylic acid	5-<10%
	<i>Eye Irrit. 2, H319</i>	
87-69-4	Tartaric acid	1-<2.5%
	Eye Dam. 1, H318	
1830-78-0	2-Hydroxy-1,3 dimethacryloxypropane	1-<2.5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
72869-86-4	Urethane Dimethacrylate (UDMA)	1-<2.5%
	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
· Additional i	<i>nformation:</i> 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. 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:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

• 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: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 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.
- · 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.
- Do not allow to penetrate the ground/soil.
- 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 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: Protect against electrostatic charges.

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

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SECTION 8: Exposure controls/personal protection

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

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state Fluid *Light vellow* · Color: **Odorless** · Odor: Not determined. · Odor threshold: • *Melting point/Melting range:* Undetermined. · Boiling point/Boiling range: Undetermined. · Flammability (solid, gaseous): Not applicable. • Explosion limits: Not determined. · Lower: · Upper: Not determined. Not applicable. · Flash point:

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· Auto igniting:	Undetermined.	
Decomposition temperature:	Not determined.	
· pH-value:	Not determined.	
· Viscosity:		
· Kinematic:	Not determined.	
· Dynamic:	Not determined.	
Solubility in / Miscibility with		
· Water:	Insoluble.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Vapor pressure:	Not determined.	
· Density and/or relative density		
Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· ·		
• 9.2 Other information		
· Appearance: · Form:	Deet	
	Pasty	
• Important information on protection of hea environment, and on safety.	ith ana	
	Due du et is not selfiquiting	
· Ignition temperature:	Product is not selfigniting.	
• Danger of explosion: • Solvent content:	Product does not present an explosion hazard.	
· Solveni content: · Water:	6.3 %	
· VOC (EC)		
· Change in condition	Not determined.	
· Evaporation rate		
· Information with regard to physical hazard cla		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
• Oxidising gases	Void	
Gases under pressure	Void	
· Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammab		
in contact with water		
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
• Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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• 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

· 11.1 Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

72869-86-4 Urethane Dimethacrylate (UDMA)

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

• on the skin: Based on available data, the classification criteria are not met.

• on the eye: Causes serious eye irritation.

- Sensitization: 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.*

• Specific target organ toxicity - single exposure Based on available data, the classification criteria are not met.

· Specific target organ toxicity - 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:

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- No further relevant information available.

· 11.2 Information on other hazards

· Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

• 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

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List II

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· 12.7 Other adverse effects

• Additional ecological information:

• General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

· Uncleaned packagings:

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

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA	not regulated	
· 14.2 UN proper shipping name · DOT, ADR, 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:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Anno 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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	known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
	known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
	known to cause developmental toxicity:	
None of the	e ingredients is listed.	
Carcinoge	nic categories	
-	ironmental Protection Agency)	
None of the	e ingredients is listed.	
TLV (Thre	eshold Limit Value)	
1309-37-	1 Iron(III)oxide	A
13463-67-2	7 titanium dioxide	A
128-37-0	0 Butylated hydroxytoluene	A
MAK (Ger	man Maximum Workplace Concentration)	
13463-67-2	7 titanium dioxide	32
128-37-0	0 Butylated hydroxytoluene	4
NIOSH-Ca	a (National Institute for Occupational Safety and Health)	
13463-67-2	7 titanium dioxide	
Named dat REGULAT	2012/18/EU ngerous substances - ANNEX I None of the ingredients is listed. TION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3	
electronic	<i>VE 2011/65/EU on the restriction of the use of certain hazardous subsequipment – Annex II</i>	stances in electrical ar
•	e ingredients is listed.	
	TION (EU) 2019/1148	
Article 5(3)		urpose of licensing und
None of the	e ingredients is listed.	
	REPORTABLE EXPLOSIVES PRECURSORS	
None of the	e ingredients is listed.	
0	n (EC) No 273/2004 on drug precursors	
None of the	e ingredients is listed.	
Regulation	n (EC) No 111/2005 laying down rules for the monitoring of trade between	the Community and thi
	in drug precursors	

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

SECTION 16: Other information

· Relevant phrases

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.
Classification according to Regulation (EC) No 1272/2008 Calculation method
Department issuing SDS: Regulatory affairs
Contact: msds@gc.dental
Date of previous version 19.02.2024
Version number of previous version: 1
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
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
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
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
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
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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