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

Printing date 10.04.2024

Version number 4 (replaces version 3)

Revision: 10.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking
• 1.1 Product identifier

• Trade name: EQUIA\_Forte\_Coat

Nanoform

- 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

ording to Regulation (EC) No 1272/2008
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

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

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

## · 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 Danger

• Hazard-determining components of labeling: Methyl methacrylate

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diphenyl(2,4,6-tr	imethylbenzoyl)phosphine oxide
• Hazard statemen	<i>its</i>
H225 Highly fla	mmable liquid and vapour.
H315 Causes sk	in irritation.
H317 May cause	e an allergic skin reaction.
H361f Suspected	of damaging fertility.
H335 May cause	e respiratory irritation.
H412 Harmful t	o aquatic life with long lasting effects.
· Precautionary st	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P3	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazard	ls
· Results of PBT a	und vPvB assessment
· <b>PBT:</b> Not applied	able.
• <b>vPvB:</b> Not applie	cable.
• Determination o	f endocrine-disrupting properties
128-37-0 Butyla	ted hydroxytoluene List II

# 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:	
80-62-6	Methyl methacrylate	25-<50%
	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
7631-86-9	silicon dioxide	10-<25%
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≥3-<5%
	Repr. 2, H361f	
128-37-0	Butylated hydroxytoluene	0.5-<1%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 (II)	
· SVHC		
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
• Additional i	<i>nformation:</i> For the wording of the listed hazard phrases refer to section 16.	F

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## **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:

- Rinse opened eye for several minutes under running water.
- If symptoms persist consult 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
- +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. Keep away from ignition sources 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: Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

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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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray on a naked flame or any incandescent material. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: Store in a cool location. Store only in unopened original receptacles. • Information about storage in one common storage facility: Store away from foodstuffs. • Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

Store in a cool place.

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

## **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Components with limit values that require monitoring at the workplace: 80-62-6 Methyl methacrylate IOELV Short-term value: 100 ppm Long-term value: 50 ppm · DNELs 80-62-6 Methyl methacrylate Dermal DNEL dermal 13.67 mg/kg bw/day (man) (worker, l. te., syst.) Inhalative DNEL inhalation 208 mg/m3 (air) (worker, l. te., syst.) 128-37-0 Butylated hydroxytoluene DNEL dermal 0.5 mg/kg bw/day (man) Dermal Inhalative DNEL inhalation 3.5 mg/m3 (man) • 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. (Contd. on page 5)

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# (Contd. of page 4) · 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. Keep away from foodstuffs, beverages and feed. 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 chemica	l properties	
General Information		
Physical state	Fluid	
Color:	Clear	
Odor:	Pungent	
Odor threshold:	Not determined.	
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flammability (solid, gaseous):	Highly flammable.	
Explosion limits:		
Lower:	2.1 Vol %	
Upper:	12.5 Vol %	
Flash point:	10 °C	
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.	

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Vapor pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.06 g/cm <sup>3</sup>
Relative density	Not determined.
Vapor density	Not determined.
Particle characteristics	SiO2: Diameter particle structure = $2.5 - 50$ nm (TEM)
	d50, number-based)
	Diameter agglomerate $= 5 - 50$ mm (laser diffraction dr
	module, d50, volume based)
	7631-86-9 silicon dioxide:
	set including amorphous nanoforms
	non-surface-treated nanoforms
	Shape: Spheroidal
	Structure: amorphous forms
	Crystallinity: amorphous nanoform
9.2 Other information	
Appearance: Form:	Linuid
	Liquid
Important information on protection of hea	ith ana
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	0.0 g/l
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard class	sses
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
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 flammable	le gases
in contact with water	Void
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	t are relevant for classification:
80-62-6 M	ethyl meth	acrylate
Oral	LD50	6,000 mg/kg (rabbit)
Dermal	LD50	>5,000 mg/kg (rab)
Inhalative	LC50/4 h	29.8 mg/l (rat (f+m))
7631-86-9	silicon dio	xide
Oral	LD50	10,000 mg/kg (rat (f+m))
128-37-0 E	Butylated h	ydroxytoluene
Oral	LD50	>6,000 mg/kg (rat (f+m)) (OECD 401)
Sensitizati Germ cell Carcinoge Reproduct Specific ta Specific ta Aspiration Additional	on: May ca mutagenic nicity Base ive toxicity rget organ rget organ hazard Ba toxicologi	available data, the classification criteria are not met. ause an allergic skin reaction. ity Based on available data, the classification criteria are not met. ad on available data, the classification criteria are not met. Suspected of damaging fertility. toxicity - single exposure May cause respiratory irritation. toxicity - repeated exposure Based on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. toxicity - repeated exposure Based on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met. ased on available data, the classification criteria are not met.
None of the	e ingredien	ts is listed.
• <b>CMR effec</b> No further	c <b>ts (carcin</b> o relevant in	ty No further relevant information available. ogenity, mutagenicity and toxicity for reproduction) aformation available. other hazards

• Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

# SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 mg/l (daphnia magna) (OECD 202)

• 12.2 Persistence and degradability No further relevant information available.

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List II

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<b>12.3 Bioaccumulative potential</b> No further relevant information available.
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· 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.

• 12.7 Other adverse effects

· Remark: Harmful to fish

• Additional ecological information:

· General notes:

*Water hazard class 3 (Self-assessment): extremely hazardous for water* 

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Harmful to aquatic organisms

# **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.* 

14.1 UN-Number	
ADR, IMDG, IATA	UN1247
14.2 UN proper shipping name	
DOT	Methyl methacrylate monomer, stabilized
ADR	1247 METHYL METHACRYLATE MONOMER, STABILIZED
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids

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Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
14.4 Packing group	
ADR, IMDG, IATA	11
14.5 Environmental hazards:	N.
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	33 F-E,S-D
Stowage Category	С
Stowage Code	SW1 Protected from sources of heat.
2.07.420 0040	SW2 Clear of living quarters.
14.7 Transport in bulk according to Annex II of	of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Temperature control is not required, in regards to Specia
	Provision 386. Product uses chemical stabilization.
ADR	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
Transport category	Maximum net quantity per outer packaging: 500 ml 2
Tunnel restriction code	2 D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER
0	STABILIZED, 3, II

# **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):

80-62-6 Methyl methacrylate

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Pr	position 65 (Contd. of pag
	emicals known to cause cancer:
	ne of the ingredients is listed.
	emicals known to cause reproductive toxicity for females:
	ne of the ingredients is listed.
	emicals known to cause reproductive toxicity for males:
	ne of the ingredients is listed.
Ch	emicals known to cause developmental toxicity:
	ne of the ingredients is listed.
Ca	rcinogenic categories
	A (Environmental Protection Agency)
	62-6 Methyl methacrylate E, N
TL	V (Threshold Limit Value)
	2-62-6 Methyl methacrylate
12	3-37-0 Butylated hydroxytoluene A
M/	IK (German Maximum Workplace Concentration)
12	3-37-0 Butylated hydroxytoluene
NI	OSH-Ca (National Institute for Occupational Safety and Health)
	ne of the ingredients is listed.
Na Sev Qu Qu	rective 2012/18/EU med dangerous substances - ANNEX I None of the ingredients is listed. peso category P5c FLAMMABLE LIQUIDS alifying quantity (tonnes) for the application of lower-tier requirements 5,000 t alifying quantity (tonnes) for the application of upper-tier requirements 50,000 t GULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
	RECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical a ctronic equipment – Annex II
No	ne of the ingredients is listed.
	GULATION (EU) 2019/1148
Ar	nex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing un icle 5(3))
No	ne of the ingredients is listed.
	nex II - REPORTABLE EXPLOSIVES PRECURSORS
No	ne of the ingredients is listed.
	gulation (EC) No 273/2004 on drug precursors
No	ne of the ingredients is listed.
coi	gulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and th Intries in drug precursors
No	ne of the ingredients is listed.

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(Contd. of page 10) • **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting** potential)

· Other regulations, limitations and prohibitive regulations

• Substances of very high concern (SVHC) according to REACH, Article 57

75980-60-8 *diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide* 

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

## **SECTION 16: Other information**

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very 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 30.06.2023
- Version number of previous version: 3
- · 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)
- DNEL: Derived No-Effect Level (REACH)
- *LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent*
- *PBT: Persistent, Bioaccumulative and Toxic*
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- Flam. Liq. 2: Flammable liquids Category 2
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Skin Sens. 1: Skin sensitisation Category 1
- Repr. 2: Reproductive toxicity Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- Aquatic Acute 1: Hazardous to the aquatic environment acute aquatic hazard Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment long-term aquatic hazard Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- · 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

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