

Page 1/9

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.08.2024

Version number 3 (replaces version 2)

Revision: 12.08.2024

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

· 1.1 Product identifier

· Trade name:

GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

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 Auxillary 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

• Further information obtainable from: 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

Skin Irrit. 2 H315 Causes skin irritation.

*Eye Irrit. 2* H319 Causes serious eye irritation.

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

Aquatic Chronic 3 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 labelled 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 Warning

• *Hazard-determining components of labelling:* 2-hydroxyethyl metacrylate Urethane Dimethacrylate (UDMA)

(Contd. on page 2)

List II

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.08.2024

Revision: 12.08.2024

## Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

	(Contd. of page 1)
· Hazard statements	5
H315 Causes skin	irritation.
H319 Causes serie	ous eye irritation.
H317 May cause a	in allergic skin reaction.
H412 Harmful to a	equatic life with long lasting effects.
· Precautionary stat	tements
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P338	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· 2.3 Other hazards	
· Results of PBT an	d vPvB assessment
· PBT: Not applical	ble.
· vPvB: Not applica	ble.

## · Determination of endocrine-disrupting properties

128-37-0 Butylated hydroxytoluene

# SECTION 3: Composition/information on ingredients

#### · 3.2 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.

868-77-9	2-hydroxyethyl metacrylate	10-<25%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
68909-20-6	Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	5-<10%
	STOT RE 2, H373, EUH066	
	Nanoform: set including amorphous nanoforms; surface-treated nanoforms;	
	Spheroidal; amorphous forms; amorphous nanoform	
1830-78-0	2-Hydroxy-1,3 dimethacryloxypropane	2.5-<5%
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
72869-86-4	Urethane Dimethacrylate (UDMA)	2.5-<5%
	Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
128-37-0	Butylated hydroxytoluene	0.1-<0.2%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Substance identified as having endocrine disrupting properties (II)	

# **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)

Printing date 12.08.2024

Revision: 12.08.2024

## Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

(Contd. of page 2) 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  $\cdot$  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. Do not allow to enter sewers/ surface or ground water. · 6.3 Methods and material for containment and cleaning up: Allow to evaporate. Absorb liquid components with liquid-binding material. Dispose of the material collected 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.

Printing date 12.08.2024

Revision: 12.08.2024

#### Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

(Contd. of page 3)

# 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 fire - and explosion protection: 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: Keep container tightly sealed.

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

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

#### · 8.1 Control parameters

· Ingredients 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.

#### · DNELs

#### 128-37-0 Butylated hydroxytoluene

Dermal DNEL dermal 0.5 mg/kg bw/day (man)

Inhalative DNEL inhalation 3.5 mg/m3 (man)

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

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

· Individual protection measures, such as personal protective equipment

• General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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.

• Hand protection

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)

EU

Printing date 12.08.2024

Revision: 12.08.2024

# Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

(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/face protection



\*

Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

0.1 Information on basis abusis of and showing land	an anti-an
• 9.1 Information on basic physical and chemical pro	perties
· General Information	Fluid
Physical state     Calcum	
· Colour:	According to product specification
Odour:	Characteristic
• Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
• Boiling point or initial boiling point and boiling ran	
· Flammability	Not applicable.
• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	97 °C
• Auto-ignition temperature:	Undetermined.
• Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Particle characteristics	68909-20-6 Silanamine, 1,1,1-trimethyl-N-
	(trimethylsilyl)-, hydrolysis products with silica:
	set including amorphous nanoforms; surface-treated
	nanoforms; Spheroidal; amorphous forms; amorphous
	nanoforms, spherotaal, amorphous forms, amorphous nanoform
	пипојогт
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health a	ind
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
	(Contd. on page 6)

EU

Printing date 12.08.2024

Version number 3 (replaces version 2)

Revision: 12.08.2024

#### Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

		(Contd. of page
Solvent content:		
VOC (EC)	0.0  g/l	
Change in condition	-	
Evaporation rate	Not determined.	
Information with regard to physical hazard cla	isses	
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 flammal	ole 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.

· 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 hazard classes as defined in Regulation (EC) No 1272/2008

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

· LD/LC50 values relevant for classification:

72869-86-4 Urethane Dimethacrylate (UDMA)

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

128-37-0 Butylated hydroxytoluene

Oral LD50 >6,000 mg/kg (rat (f+m)) (OECD 401)

Skin corrosion/irritation Causes skin irritation.

• Serious eye damage/irritation Causes serious eye irritation.

• **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.

(Contd. on page 7)

EU

Printing date 12.08.2024

## Version number 3 (replaces version 2)

Revision: 12.08.2024

Trade name: GC Fuji ORTHO BAND LC PASTE PAK (Automix Compatible) Paste A

(Contd. of page 6) • **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. • Additional toxicological information: • *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 List II

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)

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.
- · 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.

- · 12.7 Other adverse effects
- Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

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

# **SECTION 14: Transport information**

• 14.1 UN number or ID number · ADR, ADN, IMDG, IATA

not regulated

(Contd. on page 8)

Printing date 12.08.2024

Version number 3 (replaces version 2)

Revision: 12.08.2024

#### Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

		(Contd. of page 7)
· 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 Maritime transport in bulk according instruments	to IMO Not applicable.	
· UN "Model Regulation":	not regulated	

## SECTION 15: Regulatory information

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

· 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

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed. • **REGULATION (EU) 2019/1148** 

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

• 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.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

(Contd. on page 9)

<sup>-</sup> EU

Printing date 12.08.2024

Version number 3 (replaces version 2)

Revision: 12.08.2024

# Trade name: GC\_Fuji\_ORTHO\_BAND\_LC\_PASTE\_PAK\_(Automix\_Compatible)\_Paste\_A

(Contd. of page 8)
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.
EUH066 Repeated exposure may cause skin dryness or cracking.
· Classification according to Regulation (EC) No 1272/2008 Calculation method
• Department issuing SDS: Regulatory affairs
· Contact: msds@gc.dental
· Date of previous version: 12.08.2024
· Version number of previous version: 2
· Abbreviations and acronyms:
ADDR: 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
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
vPvB: very Persistent and very Bioaccumulative 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
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
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
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.

EU -