

Page 1/8

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

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SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB · 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  $\cdot$  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@gceurope.com · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: International: +01-813-248-0585 (ChemTel Inc.) National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54 **SECTION 2: Hazards 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.
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
Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device. The product is classified and labelled according to the CLP regulation.
Hazard pictograms





· Signal word Warning

• *Hazard-determining components of labelling:* 2,2'-ethylenedioxydiethyl dimethacrylate (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate

(Contd. on page 2)

GB

Printing date 02.06.2016

Version number 1

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### Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

7.7.0(ar.7.0.0) th	imethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	(Contd. of page 1)
• Hazard statemen		
	ious eve irritation.	
	an allergic skin reaction.	
· Precautionary st		
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves.	
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove co	ontact lenses, if
	present and easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P501	Dispose of contents/container in accordance with local/regional/national regulations.	al/international
· 2 3 Other hazar		

#### · 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 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 components:			
CAS: 41637-38-1	Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-	10-25%	
	methylprop-2-enoic acid.		
	Aquatic Chronic 4, H413		
CAS: 109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	1-5%	
EINECS: 203-652-6	Skin Sens. 1, H317		
CAS: 72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl	1-5%	
EINECS: 276-957-5	bismethacrylate		
	Skin Sens. 1, H317		
CAS: 1565-94-2	(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	1-5%	
<i>EINECS: 216-367-7</i>	bismethacrylate		
	Eye Dam. 1, H318; Skin Sens. 1, H317		
CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	0,1-0,5%	
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410		
· Additional informati	ion: For the wording of the listed risk phrases refer to section 16.		

# • 4.1 Description of first aid measures

**SECTION 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.

(Contd. on page 3)

GB -

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

(Contd. of page 2)

#### Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

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

• 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*, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- 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 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.

(Contd. on page 4)

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

#### Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

(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: 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.

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

# SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

#### · 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 2,6-di-tert-butyl-p-cresol

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

- · 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.

Immediately remove all soiled and contaminated clothing

· Respiratory protection: 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.

(Contd. on page 5)

GB

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

# Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

(Contd. of page 4)

Tight

• Eye protection:

9.1 Information on basic physical a	und chemical properties
General Information	
Appearance:	Derete
Form: Colour:	Pasty According to product specification
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	190 °C
Flash point:	> 150 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	2 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour 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 %

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

(Contd. of page 5)

# Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

• 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

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Oral | LD50 | > 5000 mg/kg (rat female) (OECD 401)

128-37-0 2,6-di-tert-butyl-p-cresol

*Oral LD50* > 6000 mg/kg (rat (f+m)) (OECD 401)

• Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

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

# SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

72869-86-47,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

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

128-37-0 2,6-di-tert-butyl-p-cresol

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

· 12.2 Persistence and degradability No further relevant information available.

(Contd. on page 7)

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

(Contd. of page 6)

### Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

• 12.3 Bioaccumulative potential No further relevant information available.

- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 3 (German Regulation) (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.

· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

# **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.

· European waste catalogue

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	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 packaging:

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

# SECTION 14: Transport information

· 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 Ann Marpol and the IBC Code	nex II of Not applicable.	
· UN "Model Regulation":	not regulated	

(Contd. on page 8)

Printing date 02.06.2016

Version number 1

Revision: 02.06.2016

#### Trade name: GRADIA PLUS PASTE HB & GRADIA PLUS GUM HB

(Contd. of page 7)

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

# SECTION 16: Other information

#### · Relevant phrases

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

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

#### · Department issuing MSDS: Regulatory affairs

· Contact: msds@gceurope.com

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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) 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 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eve Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4 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.

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