#### **SAFETY DATA SHEETS**

#### This SDS packet was issued with item: 071378017

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071377977 071378041



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Version CA-EN-Rev 2

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1 Identification

- · Product identifier
- Trade name: GRADIA PLUS Paste Heavy Body (Shades: HB-DA1, HB-DA2, HB-DA3, HB-DA3.5, HB-DB1, HB-DB3, HB-DC3, HB-DD2, HB-DW, HB-EL, HB-ED, HB-PE, HB-CLF, HB-ODA, HB-ODB, HB-ODC, HB-ODD, and HB-ODW) GRADIA PLUS Gum Shades Heavy Body (Shades: GHB-1, GHB-2, GHB-3, and
  - GHB-CL)
- · Relevant identified uses of the substance or mixture and uses advised against Dental material

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

SDS.gcamerica@gc.dental

- · Information department: Regulatory Affairs
- Emergency telephone number: During normal opening times (Monday–Friday 8:00 AM–5:00 PM Central Time): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

#### 2 Hazard identification

## Classification of the substance or mixture Exempt from classification and labeling – devices and drugs are not regulated according to WHMIS 2015. Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Skin Sensitizer - Category 1 H317 May cause an allergic skin

#### · Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

#### · Label elements

#### · GHS label elements

Exempt from classification and labeling – devices and drugs are not regulated according to WHMIS 2015.

The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Signal word Danger

· Hazard pictograms

 Hazard-determining components of labeling: dimethacrylate component\*\* urethane dimethacrylate (UDMA) colorant\*\* resin\*\*

#### · Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

[In case of inadequate ventilation] wear respiratory protection.

If experiencing respiratory symptoms: Call a poison center/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 3 Composition/Information on ingredients

#### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
	silane**	3 – 7% w/w
	dimethacrylate component**	1 – 5% w/w
CAS: 72869-86-4	urethane dimethacrylate (UDMA)	1 – 5% w/w
	colorant**	0.1 – 1% w/w
	resin**	0.1 – 1% w/w
CAS: 128-37-0	butylated hydroxytoluene	0.1 – 1% w/w

#### · Additional information:

If a substance is marked with \*\*, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

#### 4 First aid measures

#### · Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

If symptoms persist consult doctor.

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(Contd. of page 2)

• After inhalation: Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- Seek medical treatment.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
   After swallowing:

Rinse out mouth and then drink plenty of water.

- If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed Allergic reactions
   Indication of any immediate medical attention and special treatment needed
   No further relevant information available.

#### **5** Firefighting measures

- · 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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.
- 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.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
   Remove persons from danger area.
   Avoid contact with the eyes and skin.
   Wear protective clothing.
   Environmental precautions:
   Do not allow product to reach sewage system or any water course.
   Do not allow to penetrate the ground/soil.
   Methods and material for containment and cleaning up:
   Ensure adequate ventilation.
   Absorb liquid components with liquid-binding material.
   Dispose of the collected material according to regulations.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.

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### according to HPR, Schedule 1 Sheet Safety Data

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НБ-ИБТ, НБ-ИБЗ, НБ-ИСЗ, НБ-ИИZ, НБ-ИW, НБ-ЕГ, НБ-ЕИ, НБ-РЕ, НБ-ИГГ, НR-ОПА НR-ОПЯ НR-ОПС НR-ОПО амd HR-ОПМ)	IB-CLF,
GRADIA PLUS Gum Shades Heavy Body (Shades: GHB-1, GHB-2, GHB-3, and	-3, and
GHB-CL)	

See Section 13 for disposal information.

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## 7 Handling and storage

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## Handling:

- Precautions for safe handling
  - Observe instructions for use.
- Ensure good ventilation/exhaustion at the workplace.

  - Do not inhale dust / smoke / mist.
- Avoid contact with the eyes and skin. Prevent formation of aerosols.
- Information about protection against explosions and fires: No special measures required
- 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: Observe instructions for use / storage
    - Specific end use(s) No further relevant information available.

# 8 Exposure controls/ Personal protection

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- Additional information about design of technical systems: No further data; see item 7.
- **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.
- 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. Immediately remove all soiled and contaminated clothing.
- Breathing equipment:



Suitable respiratory protective device recommended.

## Protection of hands:



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#### Safety Data Sheet according to HPR, Schedule 1

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#### · 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:



Safety glasses

Information on basic physical and	
General Information	chemical properties
Appearance:	
Form:	Pasty
Color:	According to product specification
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C:	2 g/cm <sup>3</sup>
Relative density	Not determined.

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		(Contd. of page 5
<ul> <li>Evaporation rate</li> </ul>	Not determined.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octane	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0 %	
Solids content:	80.0 %	
<ul> <li>Other information</li> </ul>	No further relevant information available.	

#### **10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- · Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon dioxide Carbon monoxide

#### **11** Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

silicon dioxide, amorphous

titanium dioxide

3 2B

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3

3

butylated hydroxytoluene

colorant\*\*

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

- · Carcinogenic categories' legend:
- IARC Group 1: The agent is carcinogenic to humans.

IARC Group 2A: The agent is probably carcinogenic to humans.

IARC Group 2B: The agent is possibly carcinogenic to humans.

IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

IARC Group 4: The agent is probably not carcinogenic to humans.

NTP K: Known to be human carcinogen.

NTP R: Reasonably anticipated to be human carcinogen.

· Repeated dose toxicity. No further relevant information available.

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

#### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (German regulation, AwSV) (Self-assessment): slightly hazardous to water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

• Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- · Waste treatment methods
- Recommendation: Dispose of contents / container in accordance with local / regional / national / international regulations.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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4 Transport information		
<sup>·</sup> UN-Number <sup>·</sup> DOT/TDG, ADR, ADN, IMDG, IATA	Void	
<ul> <li><sup>.</sup> UN proper shipping name</li> <li><sup>.</sup> DOT/TDG, ADR, ADN, IMDG, IATA</li> </ul>	Void	
· Transport hazard class(es)		
<sup>·</sup> DOT, ADR, ADN, IMDG, IATA <sup>·</sup> Class	Void	
<ul> <li>Packing group</li> <li>DOT/TDG, ADR, IMDG, IATA</li> </ul>	Void	
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.	
· UN "Model Regulation":	Void	

#### 15 Regulatory information

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

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)
ethoxylated bisphenol-A dimethacrylate (Bis-EMA)
silane**
dimethacrylate component**
methacrylate**
silicon dioxide, amorphous
titanium dioxide
colorant**
triiron tetraoxide
C.I. Pigment Red 144
C.I. Pigment Blue 60
resin**
organic fluorophore**
butylated hydroxytoluene
synergist**
UV-light absorber**
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photoinitiator\*\*

stabilizer\*\*

#### · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

#### · Canadian Ingredient Disclosure list (limit 1%)

silane\*\*

#### dimethacrylate component\*\*

· GHS label elements

Exempt from classification and labeling – devices and drugs are not regulated according to WHMIS 2015.

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

dimethacrylate component\*\* urethane dimethacrylate (UDMA) colorant\*\* resin\*\*

resin

Hazard statements
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 May cause an allergic skin reaction.

May cause an allergic skin react

#### • Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

[In case of inadequate ventilation] wear respiratory protection.

If experiencing respiratory symptoms: Call a poison center/doctor.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

#### **16 Other information**

- · Department issuing SDS: Regulatory Affairs
- **Contact:** Regulatory Affairs Telephone No. +1 (708) 597-0900 SDS.gcamerica@gc.dental
- · Date of the latest revision of the safety data sheet 05/13/2019 / 1
- Abbreviations and acronyms: GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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