SAFETY DATA SHEETS

This SDS packet was issued with item:

071361385

N/A



Page 1/11

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

1 Identification
 Product identifier Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID CAS Number: 80-62-6 EC number: 201-297-1 Index number: 607-035-00-6
 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 Auxiliary for 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.com
 Information department: Regulatory Affairs Emergency telephone number: During normal opening times (MonFri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300
2 Hazard(s) identification
Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.
 Additional information: 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 The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

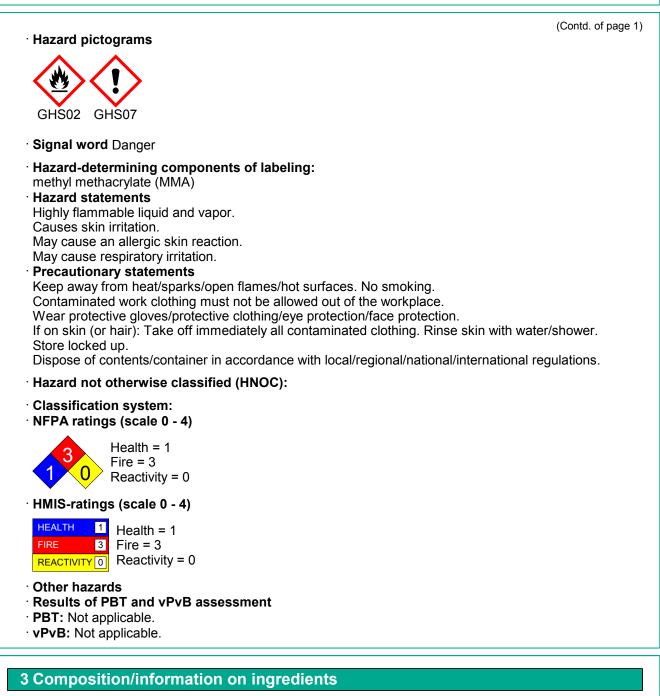
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Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID



· Chemical characterization: Substances

- CAS No. Description 80-62-6 methyl methacrylate (MMA)
- · Identification number(s)
- EC number: 201-297-1
- · Index number: 607-035-00-6

(Contd. on page 3)

US

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 2)

· Dangerous components: Void

4 First-aid measures

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; 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 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 Fire-fighting 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.
- Formation of toxic gases is possible during neating or
- · 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.
 Keep away from ignition sources 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.

(Contd. on page 4)

US

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 3) · 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. See Section 13 for disposal information. Protective Action Criteria for Chemicals Protective Action Criterion (PAC); Protective Action Criteria (PACs); Lower Explosive Limit (LEL) * indicates the PAC value is between 10% and up to 50% of the LEL (10% LEL ≤ PAC < 50% LEL). ** indicates the PAC value is between 50% and up to 100% of the LEL (50% LEL ≤ PAC < 100% LEL). *** indicates the PAC value is at 100% or more of the LEL (PAC ≥ LEL). excerpt from Introduction to PAC Table 2 - PAC Rev. 29 - May 2016 · PAC-1: 17 ppm · PAC-2: 120 ppm · PAC-3: 570 ppm

7 Handling and storage

· Handling:

- **Precautions for safe handling** Observe instructions for use. 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.
- · 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: Observe instructions for use / storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

(Contd. on page 5)

US

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

Printing date 09/19/2017

	(Contd. of page
• Compor The foll recomm	parameters nents with limit values that require monitoring at the workplace: owing constituent is the only constituent of the product which has a PEL, TLV or oth ended exposure limit. me, the remaining constituent has no known exposure limits.
	-62-6 methyl methacrylate (MMA)
	ng-term value: 410 mg/m ³ , 100 ppm
	ng-term value: 410 mg/m³, 100 ppm
Lo	ort-term value: 410 mg/m³, 100 ppm ng-term value: 205 mg/m³, 50 ppm SEN
· Additior	nal information: The lists that were valid during the creation were used as basis.
·Exposu	re controls
	al protective equipment:
· General	protective and hygienic measures:
	al precautionary measures for handling chemicals should be followed.
	ontact with the eyes and skin. ands before breaks and at the end of work.
	/av from foodstuffs, beverages and feed.
	ately remove all soiled and contaminated clothing.
· Breathir	ng equipment:
	Suitable respiratory protective device recommended.
· Protecti	on of hands:
and the second s	Protective gloves
· Materia	l of gloves
The sele quality a the glov application	ection of the suitable gloves does not only depend on the material, but also on further marks ind varies from manufacturer to manufacturer. As the product is a substance, the resistance re material can not be calculated in advance and has therefore to be checked prior to t
The exa	ct break through time has to be found out by the manufacturer of the protective gloves and h
to be ob	
· Eye pro	tection:
	Tightly sealed goggles

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 5)

9 Physical and chemical prope	9 Physical and chemical properties		
 Information on basic physical and chemical properties General Information 			
· Appearance:			
Form: Color:	Fluid		
· Odor:	Colorless Pungent		
· Odor threshold:	Not determined.		
· pH-value:	Not determined.		
· Change in condition			
Melting point/Melting range:	-48°C (°F)		
Boiling point/Boiling range:	101°C (°F)		
· Flash point:	10°C (°F)		
· Flammability (solid, gaseous):	Not applicable.		
· Ignition temperature:	430°C (°F)		
· Decomposition temperature:	Not determined.		
· Auto igniting:	Not determined.		
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.		
· Explosion limits:			
Lower:	2.1 Vol %		
Upper:	12.5 Vol %		
· Vapor pressure at 20°C (68 °F):	47 hPa (mm Hg)		
· Density at 20°C (68 °F):	0.94 g/cm ³ (lbs/gal)		
Relative density	Not determined.		
Vapor density	Not determined.		
· Evaporation rate	Not determined.		
 Solubility in / Miscibility with 			
Water at 20°C (68 °F):	1.6 g/l		
	Fully miscible.		
· Partition coefficient (n-octanol/wat	er): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
VOC content: • Other information	0.00 % 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.

(Contd. on page 7)

US

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

- · 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: No dangerous decomposition products known.

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: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

3

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not 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 (carcinogenity, mutagenicity and toxicity for reproduction)
- No further relevant information available.

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 (Assessment by list): slightly hazardous for water

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

(Contd. on page 8)

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 7)

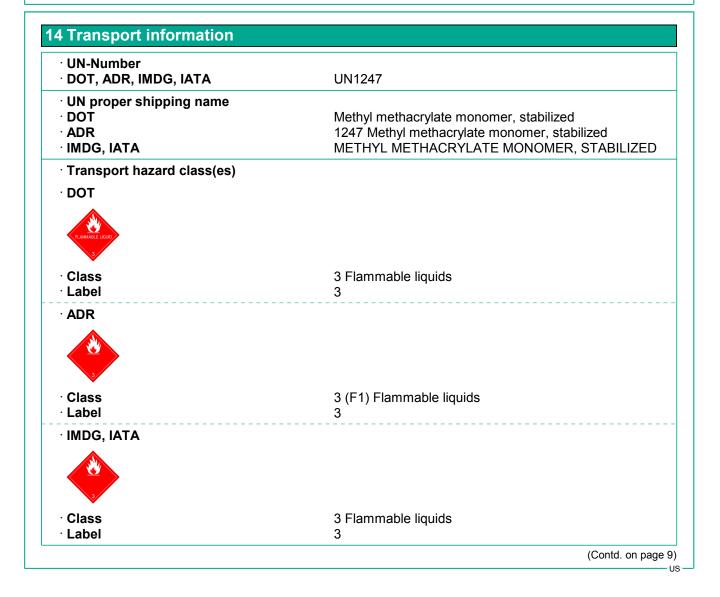
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.



Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

	(Contd. of page
 Packing group DOT, ADR, IMDG, IATA 	II
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category Stowage Code 	Warning: Flammable liquids 339 F-E,S-D B SW2 Clear of living quarters.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
· Transport/Additional information:	
 ADR Excepted quantities (EQ) 	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L 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 MONOMEF STABILIZED, 3, II

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ SARA (Superfund Amendments and Reauthorization Act)

- Section 355 (extremely hazardous substances):
- Substance is not listed.
- · Section 313 (Specific toxic chemical listings):
- Substance is listed.
- TSCA (Toxic Substances Control Act):
- Substance is listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency)
- E, NL
- · TLV (Threshold Limit Value established by ACGIH)
- A4
- · NIOSH-Ca (National Institute for Occupational Safety and Health)
- Substance is not listed.

· GHS label elements

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

(Contd. on page 10) US

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 9) · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: methyl methacrylate (MMA) · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Store locked up. 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.com · Date of preparation / last revision 09/19/2017 / -· Abbreviations and acronyms: GHS: Globally Harmonized System of Classification and Labelling of Chemicals HCS: Hazard Communication Standard (USA) MSDS: Material Safety Data Sheet SDS: Safety Data Sheet ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways) ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (USA) PAC: Protective Action Criterion (USA) PACs: Protective Action Criteria (USA) HNOC: Hazard Not Otherwise Classified (USA) LEL: Lower Explosive Limit UEL: Upper Explosive Limit 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

(Contd. on page 11)

⁻ US

Printing date 09/19/2017

Version US-EN-Rev 1

Reviewed on 09/19/2017

Trade name: GRADIA PLUS LUSTRE PAINT DILUTING LIQUID

(Contd. of page 10)

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 TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Manufacturers' MSDSs/SDSs OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html) TOXNET (http://toxnet.nlm.nih.gov/) ECHA (http://echa.europa.eu/) EnviChem (www.echemportal.org) · Notes: CAS Registry Number is a Registered Trademark of the American Chemical Society. CHEMTREC® is a registered service mark of the American Chemistry Council, Inc. * 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,

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