SAFETY DATA SHEETS

This SDS packet was issued with item: 072054922

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

072054880 072054898 072054906 072054914 072054930 072054948 072054955



MS002289

GRADIA DIRECT LOFLO MATERIAL SAFETY DATA SHEET

Page 1 of 2

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR

GC AMERICA INC. 3737 West 127th St. Alsip, Illinois, 60803 Telephone: 708-597-0900 Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T. Transportation Emergency No. 800-424-9300

COMMON NAME: GRADIA DIRECT LoFlo CHEMICAL NAME: N.A. **PRODUCT USE:** Light-cured composite restorative

The following information is provided with regard to the toxicity and hazards the pure components present in this product. SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Component	C.A.S.	Exposure Limits	LD50/LC50	%
Urethane dimethacrylate	72869-86-4	N.E.	N.E.	30-40%
Fluoro Alumino-silicate glass	Not listed	TLV=10mg/m ³	N.E.	30-40%
(amorphous)		PEL=15mg/m ³		
		(ACGIH)		
Silica powder	112926-00-8	PEL=0.1mg/m ³	LD50=>10000mg/kg	5-10%
		TLV/TWA=10mg/m ³	(oral ratio)	
		(dust) (ACGIH)	LC50=N.E.	
Triethyleneglycol dimethacrylate	109-16-0	N.E.	N.E.	5-10%
Camphorquinone	465-29-2	N.E.	N.E.	< 0.1

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	N.E.	SPECIFIC GRAVITY:	N.E.
VAPOR PRESSURE:	N.E.	MELTING POINT:	N.E.
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.E.
SOLUBILITY IN WATER:	Partially miscible	ODOR THRESHOLD:	N.E.
COEFFICIENT OF OIL/W	ATER DISTRIBUTION: N.E.		

APPEARANCE AND ODOR: Paste in various shades; slight ester-like odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not flammable (>150°C) **EXTINGUISHING MEDIA:** Chemical foam, carbon dioxide and dry chemical SPECIAL FIRE FIGHTING PROCEDURES: N.A. UNUSUAL FIRE AND EXPLOSION HAZARDS: N.E. HAZARDOUS COMBUSTION PRODUCTS: N.A.

SECTION 5 - REACTIVITY DATA

Stable 🖂 Unstable STABILITY: Will Not Occur Will Occur POLYMERIZATION: CONDITIONS TO AVOID: Avoid high heat and humidity **INCOMPATIBILITY (Materials To Avoid):** None HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

FLAMMABLE LIMITS: N.A.



MS002289

GRADIA DIRECT LOFLO

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		Х						
TERATOGENIC AFFECTS		Х						
REPRODUCTIVE TOXIN		Х						
CARCINOGENICITY	X					GROUP 2A		
SENSITIZER		Х						

ROUTES OF ENTRY: Inhalation Skin Ingestion

HEALTH HAZARD (Acute And Chronic): This paste-form product is manufactured using silica glass, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Dusts of silica glass is also a known cause of silicosis, a non-cancerous lung disease.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: May cause irritation to eyes, skin and digestive tract.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Allergic reactions to methacrylate are possible.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: If irritation develops seek medical attention.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.

SKIN CONTACT: Flush skin with plenty of soap and water for at least 15 minutes. Seed medical attention if irritation persists. *INGESTION:* Do not induce vomiting. Seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Transfer to chemical waste container for disposal.

WASTE DISPOSAL METHOD: Do not allow product to reach sewer system. Dispose of waste in accordance with local, state and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store at room temperature away from heat and high humidity. Keep container closed when not in use.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PRO	FECTION: N.A.				
VENTILATION:	Local Exhaust yes	Mechanical:	Special:	Other:	
EYE PROTECTION: OTHER PROTECTIVE	S: Disposable vinyl glo Safety goggles recomme CLOTHING OR EQUIPME ACTICE: Observe good l	nded. NT: Eye wash station.			

SECTION 9 - PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR.

 DATE:
 09 January 2006

 REVIEWED:
 13 March 2012

N.A. = NOT APPLICABLE N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

	NFPA	A	
FIRE 0	TOXICITY 1	REACTIVITY 1	SPECIAL -



Printing date 02/24/2015

Version US-EN-Rev 1

Reviewed on 02/20/2015

1 Identification

- · Product identifier
- Trade name: GRADIA DIRECT LoFlo (Shades: A1, A2, A3, A3.5, AO3, BW, and CV)

 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 Dental filling material
- 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 (Mon.-Fri. 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

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

· 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 product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Warning

- Hazard-determining components of labeling: urethane dimethacrylate (UDMA) dimethacrylate component**
- · Hazard statements
- May cause an allergic skin reaction.
- · Precautionary statements

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

(Contd. on page 2)

USA

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Trade name: GRADIA DIRECT LoFlo (Shades: A1, A2, A3, A3.5, AO3, BW, and CV)

	ning dust/fume/gas/mist/vapors/spray	(Contd. of page 1
	ctive gloves.	
	iminated clothing before reuse.	
	ion or rash occurs: Get medical advice/attention. contents/container in accordance with local/regional/national/international	regulations
	information:	regulations.
	e mixture consists of component(s) of unknown toxicity.	
· Classificati		
• NFPA ratin	gs (scale 0 - 4)	
	Health = 1	
	Fire = 1	
	Reactivity = 1	
· HMIS-rating	gs (scale 0 - 4)	
HEALTH 1	Health = 1	
FIRE 1		
	Reactivity = 1	
· Other haza	rds	
	PBT and vPvB assessment	
PBT: Not a		
• vPvB: Not a	applicable.	
S Composi	tion/information on ingredients	
•		
	haracterization: Mixtures h: Mixture of the substances listed below with nonhazardous additions.	
•		
-	components:	05 500/
72869-86-4	urethane dimethacrylate (UDMA)	25-50%
	dimethacrylate component**	20-25%
	information:	

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.

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.

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(Contd. of page 2)

- · 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
- $^{\rm \cdot}$ Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 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.

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.

- **Methods and material for containment and cleaning up:** 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.

7 Handling and storage

· Handling:

Precautions for safe handling

- Observe instructions for use.
- 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: No special measures required.

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(Contd. of page 3)

- · 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

- 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.
- Wash hands before breaks and at the end of work.
- 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: Safety glasses

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:		
Form:	Pasty	
Color:	According to product specification	
· Odor:	Nearly odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
		(Contd on page 5)

(Contd. on page 5)

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	(Contd. of page 4
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1.9 g/cm³ (15.856 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: Partition coefficient (n-octanol/wat 	Insoluble.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
 Solvent content: Organic solvents: Other information 	0.0 % 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: 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: No irritant effect.
- · on the eye: No irritating effect.

(Contd. on page 6)

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Sensitization: Sensitization possible through skin contact. Experience with humans: May cause damage to kidneys. May cause damage to liver. Additional toxicological information:	(Contd. of page 5
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	
silicon dioxide	3
NTP (National Toxicology Program)	
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
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.	

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 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.

- · 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.

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· Uncleaned packagings:

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

UN-Number DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 SARA (Superfund Amendments and Reauthorization Act)

• Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

glass, oxide, chemicals

urethane dimethacrylate (UDMA)

dimethacrylate component**

silicon dioxide

UV-light absorber**

silane**

terephthalate component**

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
GHS label elements The product is classified and labeled according to the Globally Harmonized S Hazard pictograms	System (GHS).
GHS07	
Signal word Warning	
Hazard-determining components of labeling: urethane dimethacrylate (UDMA) dimethacrylate component** Hazard statements May cause an allergic skin reaction.	
Precautionary statements Contaminated work clothing must not be allowed out of the workplace. Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves.	
Wash contaminated clothing before reuse.	
If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/inter	
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If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/inter Chemical safety assessment: A Chemical Safety Assessment has not bee Other information Department issuing MSDS: Regulatory Affairs Contact: Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com Date of preparation / last revision 02/24/2015 / - 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 pa (European Agreement Concerning the International Carriage of Dangerous Goods by Inland W ECHA: European Chemicals Agency OSHA: Occupational Safety and Health Administration (USA) ADR: Accord européen sur le transport des marchandises dangereuses par Route (Euro International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association ACGIH: American Conference of Governmental Industrial Hygienists	n carried out.

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USA

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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:

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