



Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Document Number: SDS 066.004
Date Revised: 11/8/2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Trade Name (as labeled): L/C Gingival Dam
Product Form: Mixture
Part/Item Number: 581-0100, 582-0100, 583-0100

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: Gingival dam
Restrictions on Use: For Professional Use Only

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: Dental Technologies, Inc.
Manufacturer/Supplier Address: 6901 N. Hamlin Avenue
 Lincolnwood, IL 60712
Manufacturer/Supplier Telephone Number: 800-835-0885 or 847-677-5500 (Product Information)
Email address: info@dentaltech.com

1.4 Emergency Telephone Number:

Emergency Contact Telephone Number: Chemtrec
 800-424-9300 (USA)
 001-703-527-3887 (Outside USA)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

The product as manufactured is a solid composed of encapsulated chemical ingredients. No hazardous exposures are anticipated during normal product handling and use conditions.

GHS Classification:		
Health	Environmental	Physical
Skin Sensitizer 1 (H317) Skin Irritant 2 (H315) Eye Irritant 2B (H319) Specific Target Organ Toxicity (Single Exposure), Respiratory Tract 3 (H335)	Acute Aquatic Toxicity 3 (H402) Chronic Aquatic Toxicity 3 (H412)	Not hazardous

2.2 Label Elements:

Hazard pictograms (GHS-US)



GHS07 GHS08 GHS09

Signal Word: Warning

Hazard Phrases	Precautionary Phrases
<p>H315 – Causes skin irritation. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H335 – May cause respiratory irritation. H402 – Harmful to aquatic life. H412 – Harmful to aquatic life with long lasting effects.</p>	<p>P261 – Avoid breathing dust/fumes/gas/mist/vapors/spray. P264 – Wash hands thoroughly after handling. P271 – Use only outdoors or in a well-ventilated area. P272 – Contaminated work clothing should not be allowed out of the workplace. P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 – IF ON SKIN: wash with plenty of soap and water. P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 – Call a POISON CENTER or doctor/physician if you feel unwell. P321 – See Section 4 for specific treatment. P332+P313 – IF SKIN irritation occurs: Get medical advice/attention. P333+P313 – IF SKIN irritation or rash occurs: Get P337+P313 – IF eye irritation persists: Get medical advice/attention. P362 – Take off contaminated clothing and wash before reuse. P363 – Wash contaminated clothing before reuse. P391 – Collect spillage. Hazardous to the aquatic environment. P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up. P501 – Dispose of contents/containers in accordance with local and national regulations.</p>

2.3 Other Hazards: None known.

2.4 Unknown acute toxicity (GHS-US): No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

3.2 Mixture:

Hazardous Components	C.A.S. #	Classification	WT %
Ethoxylated Bisphenol A Dimethacrylate	41637-38-1	Skin irritation, Category 2, H315 Eye Irritation, Category 2B, H319 Skin Sensitization, Category 1, H317	25-75%

		Specific Target Organ Toxicity (Single Exposure), Respiratory Tract, Category 3, H335	
Diurethane Dimethacrylate	72869-86-4	Skin Sensitization, Category 1A, H317 Acute Aquatic Toxicity, Category 3, H402 Chronic Aquatic Toxicity, Category 3, H412	10-25%
Triethylene Glycol Dimethacrylate	109-16-0	Skin Sensitization, Category 1, H317	10-25%

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS Classifications.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye	Immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult a physician.
Inhalation	Remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration and get immediate medical attention.
Ingestion	Rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. Consult a physician.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

No data available.

Note to Physicians (Treatment, Testing, and Monitoring): May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:





Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture:

Emits toxic fumes under fire conditions. Heat may cause polymerization with rapid release of energy.

5.3 Advice for Fire-Fighters:

Fire Fighting Procedures:	Use water spray to cool fire-exposed containers with this product. General: Evacuate all personnel. Use protective equipment for fire fighting.
Precautions for Fire Fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.



Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Avoid contact with skin, eyes, or clothing. Wear appropriate protective clothing as described in Section 8.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and Material for Containment and Cleaning up:

Clean up with absorbent material and remove residue with alcohol damp wipe. Rinse spill area with water. Use non-sparking tools and equipment.

6.4 Reference to Other Sections:

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Wash thoroughly after handling. Provide appropriate ventilation. For precautions see section 2.2

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific End Use (s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: No additional information available.

8.2 Exposure Controls:

Appropriate Engineering Controls: None required under normal product handling conditions.

Individual Protection Measures (PPE)



Specific Eye/face Protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards.

Specific Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Specific Respiratory Protection: Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination or type ABEK respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government regulations.

Specific Thermal Hazards: None known.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Physical state:	Homogeneous gel	Relative density:	1.17
Appearance:	Opaque or clear blue	Explosive limits:	No data available
Odor:	Slight acrylic	Vapor pressure (mmHg):	No data available
Odor threshold:	No data available	Vapor density:	No data available
pH:	No data available	Solubility(ies):	Not water soluble
Melting/freezing point:	No data available	Partition coefficient: n-octanol/water:	No data available
Initial boiling point and boiling range:	No data available	Auto-ignition temperature:	No data available
Flash point:	No data available	Decomposition temperature:	No data available

Evaporation rate:	No data available	Viscosity:	No data available
Flammability (solid, gas):	No data available	Oxidizing Properties:	No data available
Explosive Properties:	No data available		

9.2 Other Information: None.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable at ambient temperature and under normal conditions of use.
10.2 Chemical Stability: Stable under recommended storage conditions.
10.3 Possibility of Hazardous Reactions: Hazardous polymerization may occur.
10.4 Conditions to Avoid: Exposure to light and extreme temperatures (5°C/41°F or over 40°C/104°F)
10.5 Incompatible materials: Strong oxidizing agents, strong bases.
10.6 Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Ethoxylated Bisphenol A Dimethacrylate:

Acute Toxicity:	
Oral – Rat – LD50	> 2,000 mg/kg
Dermal – Rat – LD50	> 2,000 mg/kg

Diurethane Dimethacrylate:

Acute Toxicity: Oral – Rat – LD50	> 2,000 mg/kg
Caustic burning/irritation of skin: rabbit – 4h	Not irritating
Serious eye damage/eye irritation: rabbit	Not irritating

Triethylene Glycol Dimethacrylate (CAS 109-16-0):

Acute Toxicity:	
Oral – Rat – LD50	10,837 mg/kg
Inhalation – LC50 – 4h	> 40 mg/L
Chronic effects from Short and Long-term Exposure:	
Sensitization	May cause and allergic skin reaction.
Specific Target Organ Toxicity – Single Exposure	May cause respiratory irritation.

Notes:

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Signs and symptoms of exposure are burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Ethoxylate Bisphenol A Dimethacrylate:

Fish – LD50 – 96h: > 100mg/L

Daphnia magna – EC50 – 48h: > 100mg/L

Algae – EC50 – 72h: > 100mg/L

Diurethane Dimethacrylate: Acute aquatic toxicity category 3, Chronic aquatic toxicity category 3

Fish – LC50 Brachydanio rerio – 96h: > 100mg/L

12.2 Persistence and Degradability: Diurethane Dimethacrylate is not readily biodegradable.

12.3 Bio-accumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB Assessment: No data available.

12.6 Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: None currently known.

Waste Treatment Recommendations: Dispose in accordance with all national and local regulations.

14. TRANSPORT INFORMATION

14.1. UN number

N/A

14.2. UN proper shipping name

N/A

14.3. Transport hazard class(es)

N/A

14.4. Packing group

N/A

14.5. Environmental hazards

See Section 12.

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

U.S. Federal Regulations

Ethoxylated Bisphenol A Dimethacrylate:

TSCA (USA)	Listed
DSL (CDN)	Listed
NDSL	Not Listed
EINECS	Listed
SARA 311/312 Hazards	None
SARA 313 Components	Not determined

Diurethane Dimethacrylate:

REACH	Pre-registered
TSCA	Listed or exempted
DSL	Not listed
AICS	Listed or exempted
ECL	Listed or exempted
IECSC	Listed or exempted
HSNO	Listed or exempted
SARA 311/312 Hazards	None
SARA 313 Components	None
Pennsylvania Right to Know Components	Diurethane dimethacrylate (CAS-No. 72869-86-4)

Triethylene Glycol Dimethacrylate:

TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
SARA 311/312 Hazards	Acute health hazard
SARA 313 Components	None
Pennsylvania Right to Know Components	2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester CAS-No.: 109-16-10
California Proposition 65	WARNING: This product may contain trace amounts of a chemical known to the State of California to cause birth defects or other reproductive harm. Chemical Name: Benzene, methyl- CAS-No.: 108-88-3

Synthetic Amorphous, Pyrogenic Silica:

New Jersey Right to Know Components	Silica (CAS-No. 7631-86-9)
Massachusetts Right to Know Components	Silica (CAS-No. 7631-86-9)
Pennsylvania Right to Know Components	Silica (CAS-No. 7631-86-9)

15.2 Chemical Safety Assessment: None required.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health: 1	Flammability: 0	Reactivity: 1
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Full text of Classification abbreviations used in Section 2 and 3:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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Revision Summary: July 17th, 2019 : Converted MSDS to Reach SDS. Updated all sections. : November 8th, 2019 : Revised SDS. Updated all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.

Manufacturer disclaimer:

FOR DENTAL USE ONLY. The information and recommendations are taken from sources (raw material MSDS(s), SDS(s) and manufacturers knowledge) believed to be accurate; however, the manufacturer makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.