



**DENTAL
TECHNOLOGIES**

Safety Data Sheet

Safety Data Sheet (in compliance with 29 CFR Part 1200 and 29 CFR Part 1020)

Document Number: SDS 051.004
Date Revised: 03/06/24

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

1.1 Product Identifier:

Trade Name (as labeled): Alpha-Glaze Light Cure Surface Sealant
Product Form: Mixture
Part/Item Number: 403-0100-002

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

Recommended Use: Surface Sealant
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:

GHS Classification:		
Health	Environmental	Physical
Skin Sensitization Category 1 (H317) Eye Irritant Category 2 (H319) Specific Target Organ Toxicity, Single Exposure Category 3: Respiratory (H335)	Not Hazardous	Not Hazardous

2.2 Label Elements:

Hazard pictograms (GHS-US)



GHS07

Signal Word: Warning

Hazard Phrases	Precautionary Phrases
H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation	P261 – Avoid breathing dust / fume / gas / mist / vapours/ spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 – IF ON SKIN: wash with plenty of soap and water. P333+P313 – IF SKIN irritation or rash occurs: Get medical advice/attention. P321 – Specific treatment (see Section 4 on this label). P363 – Wash contaminated clothing before reuse. P501 – Dispose of contents/container to appropriate location in accordance with local and national regulations. P264 – Wash hands thoroughly after handling. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – IF eye irritation persists: Get medical advice/attention. P271 – Use only outdoors or in a well-ventilated area. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTER or doctor/... if you feel unwell. P403+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up.

2.3 Other Hazards: None known.**2.4 Unknown acute toxicity (GHS-US):** No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Not Applicable**3.2 Mixture:**

Hazardous Components	C.A.S. #	Classification	WT %
Diurethane dimethacrylate	72869-86-4	Skin Sensitization 1A, H317 Acute Aquatic Toxicity 3, H402 Chronic Aquatic Toxicity 3, H412	10-25%
Mono Hema Phthalate	27697-00-3	Skin Irritant 2, H315 Serious Eye Damage 1, H318 Specific Target Organ Toxicity 3, H335	1-10%

Tetrahydrofurfuryl methacrylate	2455-24-5	Flammable liquid 4, H227 Skin Sensitization 1, H317 Eye Irritant 2B, H320 Specific Target Organ Toxicity 3, H335 Reproductive toxicity 2, H361	10-25%
1,6-Hexanediol Dimethacrylate	6606-59-3	Skin Irritant 2, H315 Eye Irritant 2B, H320 Specific Target Organ Toxicity 3, H335	1-10%
2-(Dimethylamino)ethyl methacrylate	2867-47-2	Flammable liquid 4, H227 Acute Toxicity Oral 4, H302 Acute Toxicity Dermal 4, H312 Skin Corrosion 1B, H314 Serious Eye Damage 1, H318 Skin Sensitization 1, H317 Reproductive Toxicity 2, H361 Acute Aquatic Toxicity 3, H402	1-10%
2-Hydroxyethyl Methacrylate	868-77-9	Skin Sensitization 1B, H317 Eye Irritant 2B, H320	1-10%
Bisphenol A Dimethacrylate	3253-39-2	Skin Corrosion 2, H315 Serious Eye Damage 2A, H319 Specific Target Organ Toxicity 3, H335	1-10%

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	Flush with plenty of water for at least 15 minutes. Call a physician.
Skin	Wash skin thoroughly with soap and water. Remove contaminated clothing.
Inhalation	Move to fresh air. If breathing is labored, administer oxygen.
Ingestion	Do not induce vomiting. Give large quantities of water or milk. Call physician.

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

Skin: Irritation, defatting, or dermatitis.

Eyes: Severe eye irritation, redness, tearing, or blurred vision.

Inhalation: respiratory irritation, dizziness, nausea.

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

Medical Attention should be sought if the product is ingested or comes in contact with eyes.

Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Carbon dioxide, dry chemical, or appropriate foam.

5.2 Special Hazards Arising from the Substance or Mixture:

May produce hazardous fumes.





5.3 Advice for Fire-Fighters:**Fire Fighting Procedures:**

General: Evacuate all personnel; use protective equipment for fire-fighting. Wear full protective equipment including self-contained breathing apparatus, use water only as blanket. Water may spread fire (product floats on water).

Precautions for Fire Fighters:

Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.




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:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with the eyes, skin, and clothing. Wear protective clothing and equipment as describe in Section 8. Wash thoroughly after handling. Keep away from heat, sparks, flames, and other sources of ignition.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry, well ventilated area away from heat, direct sunlight, and all sources of ignition. Store away from incompatible materials. Keep container tightly closed.

7.3 Specific End Use (s): No specific end use.

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: Chemical safety goggles should be worn if needed to avoid eye contact.

Specific Skin Protection: Wear impervious gloves such as natural rubber or neoprene if needed to avoid skin contact. Consult glove supplier for thickness and breakthrough times. Wash hands thoroughly after using.

Specific Respiratory Protection: Wear respirator with organic vapor cartridge. No extra protection is necessary with local exhaust.

Specific Thermal Hazards: None required.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Color:	Pale yellow	Clarity:	No data available
Appearance:	Homogeneous Liquid	Specific gravity:	1.10 – 1.13
Odor:	No data available	Refractive Index:	No data available

Odor threshold:	No data available	Vapor pressure (mmHg):	No data available
pH:	No data available	Vapor density:	No data available
Melting/freezing point:	No data available	Solubility(ies):	No data available
Initial boiling point and boiling range:	No data available	Partition coefficient: n-octanol/water:	No data available
Flash point:	No data available	Auto-ignition temperature:	No data available
Evaporation rate:	No data available	Decomposition temperature:	No data available
Flammability (solid, gas):	No data available	Viscosity:	No data available
Explosive Properties:	No data available	Oxidizing Properties:	No data available

9.2 Other Information: None available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: Volatile at ambient temperature and under normal conditions of use.

10.2 Chemical Stability: Stable at standard temperature and pressure.

10.3 Possibility of Hazardous Reactions: None known.

10.4 Conditions to Avoid: Keep away from heat, sparks, incompatible materials, flames, and other sources of ignition.

10.5 Incompatible materials: High temperatures, strong oxidizing agents. Keep away from sunlight and open flames.

10.6 Hazardous Decomposition Products: Toxic fumes of carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Diurethane Dimethacrylate

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

Tetrahydrofurfuryl methacrylate:

Acute Toxicity:	
Oral (Estimate) – LD50	4003 mg/kg

Mono Hema Phthalate:

Acute Toxicity	
Oral – Rat – LD50	> 2,000 mg/kg
Dermal – rabbit – LD50	> 10,000 mg/kg
Inhalation – rat – LC50 – 4h	12.2 mg/L

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available.

Diurethane Dimethacrylate:

Acute aquatic toxicity category 3 (UN-GHS)

Chronic aquatic toxicity category 3 (UN-GHS)

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

Tetrahydrofurfuryl methacrylate:

Fathead Minnow – LC50 – 96h: 34.7 mg/L

2-Hydroxyethyl Methacrylate:

LC50 Oryzias latipes, OECD 203, semi-static, 96h: > 100 mg/L

NOEC Daphnia magna, OECD 202 part 2, flow through, 21d: 24.1 mg/L

EC50 Daphnia magna, OECD 202 part 1, static test, 48h: 380 mg/L

EC50 selenastrum capricornutum, OECD 201, 72h: 836 mg/L

NOEC selenastrum capricornutum, OECD 201, 72h: 400 mg/L

EC50 Pseudomonas fluorescens, DEV L8, 16h: > 3,000 mg/L

Mono Hema Phthalate:

Gambusia affinis – LC50 – 96h: 180 mg/L

Scenedesmus quadricauda – EC50 – growth inhibition: 10 mg/L

12.2 Persistence and Degradability: No data available.

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 national and local regulations.

14. TRANSPORT INFORMATION

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

15. REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:****U.S. Federal Regulations**

EPA Registration Number: Not Applicable

TSCA – All intentionally added components of this product are listed on the US TSCA Inventory.

SARA 313/302/304/311/312 chemicals: None

U.S. States

Pennsylvania Right to Know: Not Applicable

New Jersey Right to Know: Not Applicable

Massachusetts Right to Know: Not Applicable

15.2 Chemical Safety Assessment: None required.**16. OTHER INFORMATION**

HMIS Hazard Rating:

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

H227	Flammable liquids Category 4
H302	Acute toxicity, oral Category 4
H312	Acute toxicity, dermal Category 4
H314	Skin corrosion/irritation Category 1B
H315	Skin corrosion/irritation Category 2
H317	Sensitization, Skin Category 1
H318	Serious eye damage/eye irritation Category 1
H319	Serious eye damage/eye irritation Category 2A
H320	Serious eye damage/eye irritation Category 2B
H335	Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3
H361	Reproductive toxicity Category 2
H402	Hazardous to the aquatic environment, acute hazard Category 3
H412	Hazardous to the aquatic environment, long-term hazard Category 3

Supersedes: September 15, 2020

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Revision Summary: September 15, 2020: Converted MSDS to SDS. Updated all sections. March 6, 2024: Updated to revised GF-404 Rev001 Template.

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.