

**DENTAL  
TECHNOLOGIES**

## Safety Data Sheet

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

Document Number: SDS 118.002  
Date Revised: 03/01/24

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

#### 1.1 Product Identifier:

**Trade Name (as labeled):** Alpha-Bond® SE Self Etch Adhesive  
**Part/Item Number:** 211-0400-002

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

**Recommended Use:** Self Etch Adhesive  
**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@dentalttech.com](mailto:info@dentalttech.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 Sensitizer Category 1 (H317) Skin corrosion/irritation Category 1C (H314)	Not Hazardous	Flammable Liquid Category 2 (H225)

#### 2.2 Label Elements:



**Signal Word:** Danger, Warning

Hazard Phrases	Precautionary Phrases
H317 May cause an allergic skin reaction H314 Causes severe skin burns and eye damage H225 Highly Flammable liquid and vapor	P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: wash with plenty of water. P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P405 Store locked up. P501 Dispose of contents/container to ... P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P403+P235 Store in a well-ventilated place. Keep cool

**2.3 Other Hazards:** None known.

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixture:

Hazardous Components	C.A.S. #	Classification	WT %
pyromellitic dianhydride glycerol dimethacrylate adduct	148019-46-9	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 STOT (SE) Resp. Tract 3, H335	10-25%
Acetone	67-64-1	Flammable liq. 2, H225 Eye Irrit. 2A, H319 STOT (SE) Cent. Nerv. Sys. 3, H336	25-50%
2-Hydroxyethyl methacrylate	868-77-9	Skin Sens. 1B, H317 Eye Irrit. 2B, H320 Acute Aquatic Tox. 3, H402	1-10%

2-Propenoic acid, 2-methyl-,(1-methylethylidene)bis{4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester	1565-94-2	Skin Irrit. 3, H316 Eye Irrit. 2B, H320	25-50%
Bis [2-(methacryloyloxy) ethyl] phosphate	32435-46-4	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT (SE) Resp. Tract 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:

<b>Eye</b>	Flush with plenty of water. Seek medical attention by an ophthalmologist.
<b>Skin</b>	Wash off with soap and water. Remove contaminated clothing. If irritation persists, consult a physician.
<b>Inhalation</b>	Remove to fresh air, give oxygen and seek immediately medical attention.
<b>Ingestion</b>	Do not induce vomiting, seek medical attention.

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

Causes eye burns. Causes skin burns. Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation. Inhalation is not expected for this product.

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

Not applicable.

**Note to Physicians (Treatment, Testing, and Monitoring):** Not applicable.

## 5. FIRE-FIGHTING MEASURES





**5.1 Extinguishing Media:** See Fire Fighting Equipment under Section 5.3.

### 5.2 Special Hazards Arising from the Substance or Mixture:

None known.

### 5.3 Advice for Fire-Fighters:

<b>Fire Fighting Procedures:</b>	General: Evacuate all personnel; use protective equipment for firefighting.
<b>Precautions for Fire Fighters:</b>	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:

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 entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Wear appropriate protective clothing as described in Section 8.

### 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.

### 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 described in Section 8. Wash thoroughly after handling. See product labeling.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool-dry place. See product labeling.

### 7.3 Specific End Use (s): Self Etch Adhesive

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:** Not determined.

**8.2 Exposure Controls:**



**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.

**Specific Respiratory Protection:** None should be needed under normal use. Good ventilation should be sufficient.

### Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on Basic Physical and Chemical Properties:**

<b>Physical state:</b>	Liquid	<b>Relative density:</b>	1.01– 1.05 g/mL
<b>Appearance:</b>	Clear Liquid	<b>Explosive limits:</b>	Not Determined
<b>Odor:</b>	Not Determined	<b>Vapor pressure (mmHg):</b>	Not Determined
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	Not Determined
<b>pH:</b>	Not Determined	<b>Solubility(ies):</b>	Miscible in water
<b>Melting/freezing point:</b>	Not Determined	<b>Partition coefficient: n-octanol/water:</b>	Not Determined
<b>Initial boiling point and boiling range:</b>	Not Determined	<b>Auto-ignition temperature:</b>	Not Determined
<b>Flash point:</b>	<42°F	<b>Decomposition temperature:</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Viscosity:</b>	Not Determined
<b>Flammability (solid, gas):</b>	Flammable liquid	<b>Oxidizing Properties:</b>	Not Determined
<b>Explosive Properties:</b>	Not Determined		

**9.2 Other Information:** None available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** Stable 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:** May occur in large quantities.

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

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

**10.6 Hazardous Decomposition Products:** Oxides of carbon when burned.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

<b>Acetone</b>	
LD50 Oral Rat	5800 mg/kg (rat)
LD50 Inhalation Rat	50100 mg/m3 (rat)
LD50 Dermal Rat	7426 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:** Not Determined.

**12.2 Persistence and Degradability:** Not Determined.

**12.3 Bio-accumulative Potential:** Not Determined.

**12.4 Mobility in Soil:** Not Determined.

**12.5 Results of PBT and vPvB Assessment:** Not Determined.

**12.6 Other Adverse Effects:** Not Determined.

## 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 know.

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

## 14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
<b>DOT</b>	UN 2924	Flammable liquid, corrosive, n.o.s.	3	II	Not applicable
<b>ADR/RID</b>	UN 2924	Flammable liquid, corrosive, n.o.s.	3	II	Not applicable
<b>IMDG</b>	UN 2924	Flammable liquid, corrosive, n.o.s.	3	II	Not applicable
<b>IATA/ICAO</b>	UN 2924	Flammable liquid, corrosive, n.o.s.	3	II	Not applicable

**14.6 Special Precautions for User:** Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

## 15. REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:** Please refer to Medical Device Directive 93/42/EEC.

**15.2 Chemical Safety Assessment:** None required.

## 16. OTHER INFORMATION

HMIS Hazard Rating:

Health: 1	Flammability: 3	Reactivity: 1
-----------	-----------------	---------------

Full text of Classification abbreviations used in Section 2 and 3:

H319	Serious eye damage/eye irritation Category 2A
H317	Skin Sensitizer Category 1
H314	Skin corrosion/irritation Category 1C
H225	Flammable Liquid Category 2
H315	Skin corrosion/irritation Category 2
H320	Serious eye damage/eye irritation Category 2B
H335	Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3
H336	Specific target organ toxicity, single exposure; Narcotic effects Category 3
H402	Hazardous to the aquatic environment, acute hazard Category 3
H316	Skin corrosion/irritation Category 3

Supersedes: August 29, 2018

Date updated: March 1, 2024

Change Control Document #: DCN 6087, 9307

Revision Summary: Converted MSDS to Reach SDS. Updated all sections. March 1, 2024: Updated to revised GF-404 Rev001 Template. Revised Section 3 to remove non-hazardous components.

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.