



**DENTAL  
TECHNOLOGIES**

## Safety Data Sheet

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

Document Number: SDS 017.003

Date Revised: 03/04/24

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

#### 1.1 Product Identifier:

**Trade Name (as labeled):** Alpha-Dent® Copal Cavity Varnish  
**Product Form:** Mixture  
**Part/Item Number:** 407-0100

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

**Recommended Use:** Cavity Varnish  
**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](mailto: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                  |
| Acute Toxicity, Oral 4 (H302)<br>Eye Irritant 2A (H319)<br>Specific Target Organ Toxicity SE<br>Central Nervous System 3 (H336) | Not Hazardous | Flammable Liquid 2 (H225) |

#### 2.2 Label Elements:

Hazard pictograms (GHS-US)



**Signal Word:** Warning

| Hazard Phrases  | Precautionary Phrases  |
|---|--|
| H225 – Highly flammable liquid and vapor<br>H302 – Harmful if swallowed<br>H319 – Causes serious eye irritation<br>H336 – May cause drowsiness or dizziness | P210 - Keep away from heat/sparks/open flames/hot surfaces – No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground/bond container and receiving equipment<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.<br>P242 - Use only non-sparking tools.<br>P243 - Take precautionary measures against static discharge.<br>P261 - Avoid breathing fume/mist/vapors/spray.<br>P264 - Wash hands thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.<br>P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312 - Call a POISON CENTER or doctor/physician if you feel unwell<br>P330 - Rinse mouth<br>P337+P313 - If eye irritation persists: Get medical advice/attention<br>P370+P378 - In case of fire, use water or foam for extinction<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P403+P235 - Store in a well-ventilated place. Keep cool.<br>P405 - Store locked up<br>P501 - Dispose of contents and container in accordance with local and national regulations. |

**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 %   |
|----------------------|----------|---|--------|
| Diethyl Ether        | 60-29-7  | Flammable liquids, Category 1, H224<br>Acute toxicity, oral, Category 4, H302 | 25-50% |

|         |         |  |        |
|---------|---------|--|--------|
| Acetone | 67-64-1 | Flammable liquids, Category 2, H225<br>Eye irritation, Category 2A, H319<br>Specific target organ toxicity – single exposure, Central nervous system, Category 3, H336 | 25-50% |
|---------|---------|--|--------|

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>        | Immediately flush victim's eyes with large quantities of water for several minutes, holding the eyelids apart. Get medical attention if irritation persists.                                       |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops, get medical attention. Launder clothing before re-use.   |
| <b>Inhalation</b> | 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. |
| <b>Ingestion</b>  | Rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.  |

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

Not expected to present a significant hazard under anticipated conditions of normal use. May cause eye irritation. May cause drowsiness or dizziness. May be harmful if swallowed.

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

Immediate medical attention should not be required except in cases of high quantities of ingestion or inhalation.

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

#### 5. FIRE-FIGHTING MEASURES

**5.1 Extinguishing Media:** Use Chemical Foam, CO2, Dry Chemical Powder, Water Spray.





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

Material may burn if exposed to flame.

##### 5.3 Advice for Fire-Fighters:

|                                       |   |
|---------------------------------------|---|
| <b>Fire Fighting Procedures:</b>      | Cool fire exposed containers with water spray.  |
| <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:

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 entry into sewers and waterways. Report releases as required by local, state, and national authorities. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. 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. 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. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. 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 closed to prevent contamination.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:** Exposure Guidelines below:

| CAS     | Component     | Source | Value                                       |
|---------|---------------|--------|---|
| 60-29-7 | Diethyl Ether | OSHA   | TWA: 400 ppm TWA: 1,200 mg/m <sup>3</sup>   |
|         |               | ACGIH  | STEL: 500 ppm                               |
| 67-64-1 | Acetone       | OSHA   | TWA: 1,000 ppm TWA: 2,400 mg/m <sup>3</sup> |
|         |               | ACGIH  | TWA: 250 ppm STEL: 500 ppm                  |
|         |               | NIOSH  | TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>     |

## 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.

**Specific Respiratory Protection:** None should be needed under normal use. If exposure limits are exceeded an approved respirator or supplied air respirator appropriate should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**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:

|   |                                     |  |                  |
|---|-------------------------------------|--|------------------|
| <b>Physical state:</b>                          | Liquid                              | <b>Relative density:</b>                       | Not determined   |
| <b>Appearance:</b>                              | Pale Yellow Liquid                  | <b>Explosive limits:</b>                       | Not determined   |
| <b>Odor:</b>                                    | Characteristic of Ether and Acetone | <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>                        | Soluble 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>                             | Not determined                      | <b>Decomposition temperature:</b>              | Not determined   |
| <b>Evaporation rate:</b>                        | Not determined                      | <b>Viscosity:</b>                              | Not determined   |

|                                   |                |                              |                |
|-----------------------------------|----------------|------------------------------|----------------|
| <b>Flammability (solid, gas):</b> | Not determined | <b>Oxidizing Properties:</b> | Not determined |
| <b>Explosive Properties:</b>      | Not determined |                              |                |

**9.2 Other Information:** None available.

## 10. STABILITY AND REACTIVITY

|   |
|---|
| <b>10.1 Reactivity:</b> Stable at ambient temperature and under normal conditions of use.   |
| <b>10.2 Chemical Stability:</b> Stable at standard temperature and pressure.  |
| <b>10.3 Possibility of Hazardous Reactions:</b> May occur in large quantities.  |
| <b>10.4 Conditions to Avoid:</b> Keep away from heat, sparks, flames and other sources of ignition.   |
| <b>10.5 Incompatible materials:</b> High temperatures, visible light sources, strong oxidizing agents. Keep away from sunlight and open flames. |
| <b>10.6 Hazardous Decomposition Products:</b> Oxides of carbon when burned.   |

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

|   |              |
|---|--------------|
| <b>Acetone</b>                            |              |
| Acute Oral Toxicity – Rat – LD50          | 5,800 mg/kg  |
| Acute Inhalation Toxicity – Rat 4h – LD50 | 76 mg/L      |
| Acute Dermal Toxicity – Rat – LD50        | 20,000 mg/kg |

|   |               |
|---|---------------|
| <b>Ether</b>                                |               |
| Acute Oral Toxicity – Rat – LD50            | 1,211 mg/kg   |
| Acute Inhalation Toxicity – Mouse 4h – LD50 | 97.5 mg/L     |
| Acute Dermal Toxicity – Rabbit – LD50       | >20,000 mg/kg |

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Skin corrosion/irritation         | Mild skin irritation.                 |
| Serious eye damage/irritation     | Causes eye irritation.                |
| Respiratory or skin sensitization | Chronic exposure may cause dermatitis |
| Germ cell mutagenicity            | Not classified                        |
| Carcinogenicity                   | Not classified                        |

## 12. ECOLOGICAL INFORMATION

|  |
|--|
| <b>12.1 Toxicity:</b> No data available                      |
| <b>12.2 Persistence and Degradability:</b> No data available |
| <b>12.3 Bio-accumulative Potential:</b> No data available    |
| <b>12.4 Mobility in Soil:</b> 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

UN number: 3271

#### 14.2. UN proper shipping name

UN proper shipping name: Ethers, n.o.s.

#### 14.3. Transport hazard class(es)

Hazard classification: 3

#### 14.4. Packing group

Packing group: II

#### 14.5. Environmental hazards

Marine Pollutant #1: N/A

#### 14.6. Special precautions for user

ADR – road: UN 3271, Ethers, n.o.s., 3, pg II

RID- rail: UN 3271, Ethers, n.o.s., 3, pg II

IMDG – sea: UN 3271, Ethers, n.o.s., 3, pg II

IATA – air: UN 3271, Ethers, n.o.s., 3, pg II

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

Transport in bulk: UN 3271, Ethers, n.o.s., 3, pg II

### 15. REGULATORY INFORMATION

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

##### U.S. Federal Regulations

##### **Diethyl ether CAS 60-29-7**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed as a Pennsylvania Right to Know Component

##### **Acetone CAS 67-64-1**

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed as a Pennsylvania Right to Know Component

##### International Regulations

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Medical devices are not subject to WHMIS.

**Canadian Environmental Protection Act:** This product is a medical device and not subject to chemical notification requirements.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS

contains all of the information required by the CPR.

**European Inventory of Existing Chemicals (EINECS):** This product is a medical device and not subject to chemical notification requirements.

**EU REACH:** All components requiring registration have been pre-registered.

**Australian Inventory of Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**China Inventory of Existing Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Japanese Existing and New Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Korean Existing Chemicals List:** This product is a medical device and not subject to chemical notification requirements.

**Philippine Inventory of Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

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

## 16. OTHER INFORMATION

HMIS Hazard Rating:

|           |                 |               |
|-----------|-----------------|---------------|
| Health: 1 | Flammability: 3 | Reactivity: 0 |
|-----------|-----------------|---------------|

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

|      |                                      |
|------|--------------------------------------|
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor    |
| H302 | Harmful if swallowed                 |
| H319 | Causes serious eye irritation.       |
| H336 | May cause drowsiness or dizziness    |

Supersedes: May 8, 2020

Date updated: March 4, 2024

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Revision Summary: May 8, 2020: Converted MSDS to Reach SDS. Updated all sections. March 4, 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.