DENTAL TECHNOLOGIES

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 132.000
Date Revised: 6/11/2019

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

1.1 Product Identifier:

Trade Name (as labeled): **Temporary Cement Non-Eugenol Base and Accelerator**

Product Form: **Mixture**

Part/Item Number: **322-0100-002, 322-0200-002**

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

Recommended Use: **Temporary Cement**

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 irritation Cat. 2 (H315) Eye irritation Cat. 2A (H319)	Acute aquatic hazard Cat. 1 (H400) Chronic aquatic hazard Cat. 1 (H410)	Not Hazardous

2.2 Label Elements:

Hazard pictograms (GHS-US)

GHS07 GHS09

Signal Word: Warning

Hazard Phrases	Precautionary Phrases
H315 – Causes skin irritation. H319 – Causes serious eye irritation. H400 – Very toxic to aquatic life. H402 – Harmful to aquatic life. H410 – Very toxic to aquatic life with long lasting effects.	P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Immerse in cool water/wrap in wet bandages. P321 See Section 4 on this document for specific treatment. P332+P313 IF SKIN irritation or rash occurs. Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center or doctor/ physician. P273 Avoid release to the environment. P391 Collect spillage. Hazardous to the aquatic environment. P501 Dispose of contents/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

Temporary Cement Non-Eugenol Base:

3.1 Substances: Not applicable

3.2 Mixture:

Hazardous Components	C.A.S. #	Classification	WT %
Olive Oil	8001-25-0	Not Classified	10-25%
Corn Starch	9005-25-8	Not Classified	25-50%
Zinc Oxide	1314-13-2	Acute aquatic hazard, Category 1, H400 Chronic aquatic hazard, Category 1, H410	50-75%

Temporary Cement Non-Eugenol Accelerator:

3.1 Substances: Not applicable

3.2 Mixture:

Hazardous Components	C.A.S. #	Classification	WT %
Octanoic Acid	124-07-2	Skin corrosion, Category 1B, H314 Serious eye damage, Category 1, H314 Acute aquatic toxicity, Category 3, H402	25-50%
Partially Dimerized Rosin	65997-05-9	Not Classified	50-75%

2-Ethoxybenzoic Acid	134-11-2	Not Classified	1-10%
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	Not Classified	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	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:
Causes skin and/or eye irritation.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:
No hazards which require special first aid measures.
Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media:	Water spray, Dry chemical, Carbon dioxide

5.2 Special Hazards Arising from the Substance or Mixture:
Zinc/Zinc oxides

5.3 Advice for Fire-Fighters:	
Fire Fighting Procedures:	Do not use a solid water stream as it may scatter and spread fire.
Precautions for Fire Fighters:	Wear an approved positive pressure self-contained breathing apparatus in addition to Standard fire fighting gear.

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 the 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 Handing:

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. Face shield (8-inch minimum). 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.

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: (Base/Accelerator)

Physical state:	Homogeneous Paste/ Homogeneous Paste	**Specific Gravity:**	1.90-2.30/0.97-1.21
Appearance:	White/Amber	**Explosive limits:**	No data available
Odor:	No data available	**Vapor pressure (mmHg):**	No data available
Odor threshold:	No data available	**Vapor density:**	No data available
pH:	No data available	**Solubility(ies):**	No data available
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: No data available.
10.2 Chemical Stability: Stable under recommended storage conditions.
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, bases. Keep away from sunlight and open flames.
10.6 Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions – Carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Octanoic Acid:

LD50 Oral – rat	10,080 mg/kg
LD50 Dermal – rabbit	>5,000 mg/kg
Skin corrosion/irritation – rabbit	Causes burns – 24h

Dimerized rosin:

LD50 Oral – mouse	>4,000 mg/kg
LD50 Oral – guinea pig	>4,000 mg/kg
LD50 Dermal – rabbit	>2,500 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity: It is very toxic to aquatic organisms. Since it takes very long time for zinc oxide to break down, it may cause adverse long-term effects in the aquatic environment.
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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

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: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber.

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
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:

Octanoic Acid:

SARA 311/312 Hazards	Acute Health Hazard
Pennsylvania Right to Know Components	Octanoic acid (CAS-No. 124-07-2)
New Jersey Right to Know Components	Octanoic acid (CAS-No. 124-07-2)

Dimerized Rosin:

WHMIS (Canada) Status:	Noncontrolled
SARA 311-312 Hazard Classification:	Fire hazard
OSHA:	Hazardous
TSCA (US Toxic Substances Control Act):	This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.
DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):	This product is listed on the DSL. Any impurities present in this product are exempt from listing.
AICS/NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):	This product is listed on AICS or otherwise complies with NICNAS
MITI (Japanese Handbook of Existing and New Chemical Substances):	This product is listed in the Handbook or has been approved in Japan by new substance notification.
ECL (Korean Toxic Substances Control Act):	This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.
Philippines Inventory (PICCS):	This product is listed on the Philippine Inventory or otherwise complies with PICCS.
Inventory of Existing Chemical Substances in China:	All components of this product are listed on Inventory of Existing Chemical Substances in China (IECSC).

2-Ethoxybenzoic acid:

Pennsylvania Right to Know Components	2-Ethoxybenzoic acid (CAS-No. 134-11-2)
New Jersey Right to Know Components	2-Ethoxybenzoic acid (CAS-No. 134-11-2)

Olive Oil:

Pennsylvania Right to Know Components	Olive oil (CAS-No. 8001-25-0)
New Jersey Right to Know Components	Olive oil (CAS-No. 8001-25-0)

Corn Starch:

Massachusetts Right to Know Components	Starch (CAS-No. 9005-25-8)
Minnesota Right to Know Components	Starch (CAS-No. 9005-25-8)
Pennsylvania Right to Know Components	Starch (CAS-No. 9005-25-8)
Component Analysis – Inventory: Starch (CAS 9005-25-8)	US, CA, EU, AU, PH, JP, KR, CN, NZ

Zinc Oxide:

TSCA	Listed
FCC	Listed
DSL	Listed
SARA 311/312	Yes (Acute)
US EPA Reg. No	71645-3
US EPA PC Code	088502
US TRI Reproductive Toxin	Yes
US TRI Development Toxin	Yes

15.2 Chemical Safety Assessment: None required.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health: 1	Flammability: 0	Reactivity: 0

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

H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supersedes: N/A
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Change Control Document #: NR 2773
Revision Summary: June 11th, 2019 : Created SDS.
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.