Material Safety Data Sheet  Cavity Varnish w/ Fluoride  Page 1 of 6

Section 1 – Identification

Product Name:  Cavity Varnish w/ Stannous Fluoride
Active Ingredient:  Potassium Fluoride & Stannous Fluoride

Manufacturer:  Deepak Products LLC.
5220 N.W. 72nd Avenue  Miami, FL 33166

Information Contacts:  (305)-482-9669
Toll Free:  1-877-8-DEEPAK
Emergency Phone Numbers:  US & Canada 1 (877 ) 8–DEEPAK

Family:  Medicaments (Desensitizer)
Product Use:  Professional Dental Varnish
Product #:  06-00377

Section 2 – Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- **Extremely Flammable** – keep container closed and avoid static discharge
- Vapors may cause drowsiness or dizziness.
- Toxic if large quantities are swallowed or inhaled.
- Potentially irritating to eyes and respiratory system
- Please read entire MSDS for additional information.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry  Inhalation, skin, and ingestion.
Eye  Splashes or close proximity to vapors may cause redness of the eye.
Skin  Repeated/prolonged contact may cause dryness or cracking of the skin. Possible irritation will take place.
Ingestion  Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. Symptoms include irritation of the throat, nausea, dizziness, and upset stomach, possibly organ (liver) damage.
Inhalation  Inhaling vapors may cause drowsiness or dizziness. Irritation to respiratory tract may occur if prolonged exposure to vapors take place.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS Numbers</th>
<th>EINECS#</th>
<th>INCI Name</th>
<th>Exposure OSHA TWA/STEL</th>
<th>Limits ACGIH TWA/STEL</th>
<th>Carcinogen</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>Alcohol</td>
<td>TWA = 1000 ppm or 1900 mg/ m^3</td>
<td>TWA = 1880 mg/ m^3</td>
<td>No/No/Yes</td>
<td>50-75</td>
</tr>
<tr>
<td>Ethyl Ether</td>
<td>60-29-7</td>
<td>200-467-2</td>
<td>Ethyl Ether</td>
<td>TWA = 400 ppm or 1200 mg/ m^3</td>
<td>TWA = 400 ppm STEL = 500 ppm</td>
<td>Not Listed</td>
<td>13-30</td>
</tr>
<tr>
<td>Potassium Fluoride</td>
<td>7789-23-3</td>
<td>232-151-5</td>
<td>Potassium Fluoride</td>
<td>TWA = 2.5 mg/ m^3</td>
<td>TWA = 2.5 mg/ m^3</td>
<td>Not Listed</td>
<td>0-3</td>
</tr>
<tr>
<td>Stannous Fluoride</td>
<td>7783-47-3</td>
<td>231-999-3</td>
<td>Stannous Fluoride</td>
<td>TWA = 2.5 mg/ m^3</td>
<td>TWA = 2.5 mg/ m^3</td>
<td>Not Listed</td>
<td>0-3</td>
</tr>
</tbody>
</table>

N/E – None Established  N/DA – No Data  N/R – Not Reviewed  Available  N/A – Not Applicable

(items in parenthesis relate to 1999/45/EC)

Ethanol:  Danger Symbol – GH502 (F)  Hazard Statement – H225 (R11)  Precautionary Statement – P102 (S1/2), P404 (S7), P210 (S16)
Ethyl Ether:  Danger Symbol – GH502 (F), GH507 (Xn)  Hazard Statement – H224 (R12), EUH019 (R19), H302 (R22), EUH066 (R66), H336 (R67)
Potassium Fluoride:  Danger Symbol – GH506 (T)  Hazard Statement – H311 + H313 + H301 (R23/24/25)  Precautionary Statement – P102 (S1/2), P305+334 (S26), P309+314 (S45)
Stannous Fluoride:  Danger Symbol – GH505 (C), GH507 (Xn)  Hazard Statement – H302 (R22), H313 (N/A), H315 (R38), H318 (R41)

See Section 16 for Hazard and Precautionary Statement Key.

Date of Issue:  02/12/2011
Material Safety Data Sheet  Cavity Varnish w/ Fluoride  Page 2 of 6

Section 4 – First Aid Measures

First Aid for Eye
Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

First Aid for Skin
Wash thoroughly with soap and water. Remove contaminated clothing. Get medical help if discomfort persists.

First Aid for Ingestion
If greater than normal dose is swallowed, do not induce vomiting. Drink large quantity of water or milk. Seek medical attention.

First Aid for Inhalation
Move to fresh air. Seek medical attention if discomfort persists.

Section 5 – Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flash Point (°F/°C)</th>
<th>Flammable Limit (vol%)</th>
<th>Auto-ignition Temperature (vol%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Around 50 °F / 10 °C</td>
<td>N/A</td>
<td>Around 685 °F / 363 °C</td>
</tr>
</tbody>
</table>

Method:
- Extinguishing Media: “Alcohol” foam, Carbon dioxide, dry chemical foam
- Fire Fighting Instructions: For large fires, apply water from as far as possible. Use very large quantities of water applied as a mist or spray, solid streams of water may be ineffective. Cool all affected containers with water.

Unusual Hazards: N/A

Section 6 – Accidental Release Measures

Spill or Release Procedures
- Minor spills – Clean up immediately, avoid contact with skin and eyes. Wipe area and clean with soapy water

- Major spills – Clear area of personnel. Restrict access to area. Eliminate ALL ignition sources. Avoid contact with skin and eyes. Use non-sparking tools. Absorb spill with inert material, such as sand, dry lime, or soda ash, and dispose of properly. See section 8 & section 12.

Section 7 – Handling and Storage

Handling
Limit all unnecessary personal contact. Stay away from ignition sources and open flames. Avoid breathing vapors. Wear appropriate PPE.

Storage
Store in a cool, well ventilated area away from heat, sparks and flame. Keep containers closed when not in use. Keep in original container provided by manufacturer.

Explosion Hazard
None.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls
Mechanical exhaust is HIGHLY recommended. Safety shower, eye bath, and fire equipment (spill response) should be accessible.

Personal Protective Equipment
- General
To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132), or European Standard EN166 be conducted before using this product.

- Eye/ Face Protection
Chemical safety glasses / goggles or splash shields are required when handling. Ensure eye bath is on hand.

- Skin Protection
Use impermeable clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit.

- Respiratory Protection
In case of insufficient ventilation, wear suitable respiratory equipment with correct respiratory cartridge. If the respirator is the sole means of protection, use a full face supplied air respirator.

Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Odor &amp; Odor Threshold</th>
<th>pH</th>
<th>Specific Gravity (H2O = 1):</th>
<th>Viscosity</th>
<th>% Volatile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colored Liquid</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boiling Point/ Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Octanol/Water Partitioning Coefficient</th>
<th>Vapor Pressure:</th>
<th>Vapor Density</th>
<th>Evaporation Rate</th>
<th>Ignition</th>
<th>Solubility In Water (20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Date of Issue: 02/12/2011
Section 10 – Stability and Reactivity

**Stability:** Stable

**Incompatibility (Materials to Avoid):**
Oxidizing agents, peroxides, alkali metals, ammonia.

**Hazardous Decomposition Products:**
Carbon dioxide and monoxide

**Hazardous Polymerization:**
Will not occur

**Conditions to Avoid:** Heat and incompatible materials

Section 11 – Toxicological Information

<table>
<thead>
<tr>
<th>Acute Oral Toxicity</th>
<th>Acute Dermal Toxicity</th>
<th>Acute Inhalation Toxicity</th>
<th>Irritation – skin</th>
<th>Irritation – Eye</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>Mutagenicity</th>
<th>Sub-chronic Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Section 12 – Ecological Information

**Ecotoxicological Information**

<table>
<thead>
<tr>
<th>Acute Toxicity to Fish</th>
<th>Acute Toxicity to Invertebrates</th>
<th>Acute Toxicity to Algae</th>
<th>Bioconcentration</th>
<th>Toxicity to Sewage Bacteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

**Chemical Fate Information**

<table>
<thead>
<tr>
<th>Biodegradability</th>
<th>Chemical Oxygen Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/DA. This material is not expected to significantly bio-accumulate.</td>
<td>N/DA</td>
</tr>
</tbody>
</table>

Section 13 – Disposal Considerations

Dispose of in compliance with governmental regulation (state and federal).

Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14 – Transport Information

<table>
<thead>
<tr>
<th>DOT (49 CFR 172)</th>
<th>IATA (DGR)</th>
<th>IMO (IMDG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name:</td>
<td>UN1170, Ethanol Solution, 3, II</td>
<td>UN1170, Ethanol Solution (Ethyl Alcohol Solution), 3, II</td>
</tr>
<tr>
<td>Identification Number:</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Marine Pollutant:</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Special Provisions:</td>
<td>24, IB2, T4, TP1</td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Response Guidebook (ERG) #:</strong></td>
<td>127</td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Response Guidance (ICAO)#:</strong></td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Schedule (EmS)#:</strong></td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Date of Issue: 02/12/2011
# Section 15 – Regulatory Information

## US Federal Regulations

| Clean Air Act: HAP/ODS | This product contains the following HAP’s or ODS:  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• NONE</td>
</tr>
</tbody>
</table>
| Clean Water Act: Priority Pollutant | This product contains the following chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List:  
|                          | • None                                                   |
| FDA: Food Packaging Status | This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive. |
| Occupational Safety and Health Act | This product is considered to be hazardous under the OSHA Hazard Communication Standard. It’s hazards are:  
|                                       | • Ethanol – CAS #64-17-5 (Flammable)  
|                                       | • Ethyl Ether – CAS #60-29-7 (Flammable)  
|                                       | • Potassium Fluoride – CAS #7789-23-3 (Health hazard)  
|                                       | • Stannous Fluoride – CAS #7783-47-3 (Toxic, Irritant) |
| RCRA | This product contains the following chemicals considered to be hazardous waste under RCRA (40 CFR 261).  
|      | • None                                                   |
| SARA Title III: Section 302 (RQ) | This product contains no chemicals regulated under Section 302 as extremely hazardous substances. |
| SARA Title III: Section 302 (TPQ) | This product does contain chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification (“CERCLA” List).  
|                                       | • Ethyl Ether – CAS #60-29-7 (100 lb final RQ) |
| SARA Title III: Section 311-312: | This product is considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). It’s hazards are:  
|                                      | • Ethanol – CAS #64-17-5 (Immediate Health Hazard, Fire Hazard, Chronic Health Hazard)  
|                                      | • Ethyl Ether – CAS #60-29-7 (Fire Hazard, Acute Health Hazard, Chronic Health Hazard)  
|                                      | • Potassium Fluoride – CAS #7789-23-3 (Immediate Hazard)  
|                                      | • Stannous Fluoride – CAS #7783-47-3 (Acute & Chronic Health Hazard) |
| SARA Title III: Section 313: | This product contains the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
|                             | • None                                                   |
| TSCA Section 8(b): Inventory: | This product does contain chemicals listed on the TSCA inventory or otherwise complies with TSCA pre-manufacture notification requirements.  
|                             | • Ethanol – CAS # 64-17-5  
|                             | • Ethyl Ether – CAS #60-29-7  
|                             | • Potassium Fluoride – CAS #7789-23-3  
|                             | • Stannous Fluoride – CAS #7783-47-3 |
| TSCA Significant New Use Rule: | None of the chemicals in this material have a SNUR under TSCA. |

## State Regulations

| CA Right-to-Know Law: California No Significant Risk Rule: | Ethyl Ether – CAS #60-29-7  
|                                                         | Potassium Fluoride – CAS #7789-23-3  |
| MA Right-to-Know Law: | Ethanol – CAS # 64-17-5  
|                                                          | Ethyl Ether – CAS #60-29-7 |
| NJ Right-to-Know Law: | Ethanol – CAS # 64-17-5  
|                                                          | Ethyl Ether – CAS #60-29-7  
|                                                          | Potassium Fluoride – CAS #7789-23-3  
|                                                          | Stannous Fluoride – CAS #7783-47-3  |
| PA Right-to-Know Law: | Ethanol – CAS # 64-17-5  
|                                                          | Ethyl Ether – CAS #60-29-7  
|                                                          | Potassium Fluoride – CAS #7789-23-3  |

Date of Issue: 02/12/2011
Material Safety Data Sheet  
Cavity Varnish w/ Fluoride  

Date of Issue: 02/12/2011

**Material Safety Data Sheet**  
**Cavity Varnish w/ Fluoride**  

**FL Right-to-Know Law:**  
Stannous Fluoride – CAS #7783-47-3

**MN Right-to-Know Law:**  
Ethyl Ether – CAS #60-29-7  
Potassium Fluoride – CAS #7789-23-3

**International Regulations**  
CDSL: Canadian Inventory (on Canadian Transitional List)

Ethanol – CAS # 64-17-5  
Ethyl Ether – CAS #60-29-7  
Potassium Fluoride – CAS #7789-23-3  
Stannous Fluoride – CAS #7783-47-3

**Labeling according to EC directives – 1272/2008 {CLP} AND 1999/45/EC (items in parenthesis relate to 1999/45/EC)**

**European Community:**  
For Cavity Varnish w/ Stannous Fluoride (finished product):

- **Danger Symbols:** GHS07 (Xn) – Harmful / Acute Toxicity. GHS02 (F) – Flammable. GHS08 (n/a) – Health hazard (Organ Toxicity)
- **Hazard Statement:** H225 (R11), H302 (R22), H312 (R21), H320 (N/A), H332 (R20), H371 (R68/22).
- **Precautionary Statement:** P102 (S2), P210 (S15), P261 (S24), P280 (S36/37/39). P305+334 (S26), P309+314 (S45), P404 (S7), P403 (S9). P243 (S33).

**Section 16 – Other Information**

**EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):**

**Danger Symbols:**  
GHS02 (F) – Highly Flammable. GHS07 (Xn) – Harmful. GHS06 (T) – Toxic. GHS06 (C) - Corrosive

**Hazard Statement:**  
H224 (R12), Extremely flammable liquid and vapor. H225 (R11), Highly flammable liquids and vapors. EUH019 (R19), May form explosive peroxides. H302 (R22), Harmful if swallowed. EUH066 (R66), Repeated exposure may cause skin dryness or cracking. H336 (R67), May cause drowsiness or dizziness. H311 + H301 + H313 (R23/24/25), Toxic if inhaled or in contact with skin or swallowed. H312 (R21), Harmful in contact with skin. H320 (N/A), Causes eye irritation. H332 (R20), Harmful if inhaled. H371 (R68/22), May cause damage to organs. H313 (N/A), Maybe harmful in contact with skin. H315 (R38), Causes skin irritation. H318 (R41), Causes serious eye damage.

**Precautionary Statement:** P102 (S1 or S2), Keep out of reach of children. P210 (S15 or S16), Keep away from heat/sparks/open flames/hot surfaces. P273 (S29), Avoid release into environment. P243 (S33), Take precautionary measures against static discharge. P280 (S36/37/39), Wear protective gloves/clothing/eye protection/face protection. P305+334 (S26), In case of contact with eyes, rinse immediately with water. P309+314 (S45), If exposed or you feel unwell, get medical advice/attention. P404 (S7), Store in a closed container. P403 (S9), Store in a well ventilated place. P261 (S24), Avoid breathing dust/fume/gas/mist/vapors. P305+351+338 (S26), If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

**Hazard Rating System (Pictograms)**

**NFPA:**

- 2: Flammability
- 3: Reactivity

**HMIS:**

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

MSDS Prepared by:  
WME

Revision History:  
02/12/11 Initial

The information presented herein was obtained from sources considered to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness or suitability for consumers intended use and/or application. For this and
other reasons, we assume no responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared expressly for this product. Use the materials only as directed. If the product is used as a component of another product, the information contained within the MSDS may not be applicable.

Deepak components are provided on an as is basis without warranties of any kind either expressed or implied. Deepak does not warrant the use or the results of use of the materials sold on an as is basis since they are intended for remanufacturing or repackaging. It is the sole responsibility of the user to examine and determine appropriate application and regulatory requirements associated with said Deepak components.