1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>UltraFin I.E. Tissue Infiltration &amp; Embedding Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use</td>
<td>Tissue Infiltration &amp; Embedding Medium</td>
</tr>
<tr>
<td>Size</td>
<td>2.2 pounds/bag, 8 bags per case</td>
</tr>
<tr>
<td>Product Number</td>
<td>EM0125-B</td>
</tr>
<tr>
<td>Supplier</td>
<td>Avantik</td>
</tr>
<tr>
<td>Address</td>
<td>32-36 Commerce Street Springfield, NJ 07081</td>
</tr>
<tr>
<td>Phone Number</td>
<td>(800) 783-9424</td>
</tr>
<tr>
<td>Emergency Phone Number</td>
<td>(847) 735-9965</td>
</tr>
<tr>
<td>Revision Date</td>
<td></td>
</tr>
<tr>
<td>SDS Date</td>
<td>March 31, 2009</td>
</tr>
</tbody>
</table>

This SDS has been compiled in accordance with OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARD IDENTIFICATION

**WARNING!** May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated. Target Organs: No data found

**EU Main Hazards** Not classified as hazardous

**Routes of Entry** Eye contact - Skin contact

**Carcinogenic Status** Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs** Eye - Skin

**Health Effects - Eyes** Contact may cause slight transient irritation.

**Health Effects - Skin** Contact may cause irritation.

**Health Effects - Ingestion** No adverse effects are expected.

**Health Effects - Inhalation** No adverse effects are expected during normal conditions of use. Inhalation of paraffin wax fumes during heating may irritate the eyes, nose and throat.
3. COMPOSITION / INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS#/Codes</th>
<th>Concentration</th>
<th>R Phases</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paraffin</td>
<td>8002-74-2</td>
<td>&gt; 75.00%</td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>232-315-6</td>
<td>&lt;25.00%</td>
<td>R-None</td>
<td>None</td>
</tr>
<tr>
<td>Resin</td>
<td>Proprietary</td>
<td></td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eyes**
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**
If skin irritation develops, or other symptoms occur, discontinue use. Seek medical attention if symptoms persist. Contaminated clothing should be washed or dry-cleaned before re-use.

**Ingestion**
Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

**Inhalation**
If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

**Advice to Physicians**
Treat symptomatically.
5. FIRE FIGHTING MEASURES

Extinguishing Media
Not Flammable. Select extinguishing agent appropriate to other materials involved.

Unusual Fire and Explosion Hazards
This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting
Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

This product may be collected by carefully scooping into a pan, paper towel or other absorbent material.

If wax is hot, let cool before initiating clean up.

To clean up spills of cooled wax, use non-sparking tools to scrape the wax into suitable containers for disposal. Wear appropriate protective clothing.

7. HANDLING AND STORAGE

Keep container tightly closed when not in use.

Storage area should be: - cool - dry - well ventilated - away from incompatible materials
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational Exposure Standards**
Exposure limits are listed below, if they exist.

**Paraffin**
ACGIH: TLV 2mg/m3 8h TWA. (fume)
UK EH40: OES 2mg/m3 8h TWA.
UK EH40: OES 6mg/m3 10min TWA.

**Resin**
None assigned.

**Engineering Control Measures**
No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels. Heating of this product may generate vapors or fumes, therefore, local exhaust ventilation is recommended to keep airborne concentrations below exposure limits.

**Respiratory Protection**
Respiratory protection if there is risk of breathing mists or vapors from heated material. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

**Hand Protection**
Chemical resistant gloves

**Eye Protection**
Chemical goggles or safety glasses with side shields

**Body Protection**
Normal work wear.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Waxy Pellets</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless - White - Translucent</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>No data.</td>
</tr>
<tr>
<td>Boiling Range/Point (°C/F)</td>
<td>No data.</td>
</tr>
<tr>
<td>Melting Point (°C/F)</td>
<td>47-65°C / 117-149°F (depending on grade)</td>
</tr>
<tr>
<td>Flash Point (PMCC) (°C/F)</td>
<td>204°C / 400°F</td>
</tr>
<tr>
<td>Auto-flammability (°C)</td>
<td>245°C (for 100% paraffin)</td>
</tr>
<tr>
<td>Explosion Limits (%)</td>
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</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data.</td>
</tr>
<tr>
<td>Density</td>
<td>No data.</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>No data.</td>
</tr>
<tr>
<td>Viscosity (cSt)</td>
<td>No data.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Stability**
Stable under normal conditions

**Conditions to Avoid**
Heat - High temperatures

**Materials to Avoid**
Reducing agents - Strong acids

**Hazardous Polymerization**
Will not occur

**Hazardous Decomposition Products**
Acrid smoke and irritating fumes - oxides of carbon
11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**
Low order of acute toxicity predicted.
Paraffin: A 100 mg dose applied to the rabbit eye for 24 hours caused mild irritation. A 500 mg dose applied to the rabbit skin for 24 hours caused mild irritation.

**Chronic Toxicity/Carcinogenicity**
Paraffin: When implanted in rats (120 mg/kg) and mice (480-660 mg/kg), caused tumors of the bladder, lungs and thorax.

**Genotoxicity**
This product is not expected to cause any mutagenic effects.

**Reproductive/Developmental Toxicity**
This product is not expected to cause reproductive or developmental health effects.

12. ECOLOGICAL INFORMATION

**Mobility**
No relevant studies identified.

**Persistence/Degradability**
No relevant studies identified.

**Bio-accumulation**
No relevant studies identified.

**Ecotoxicity**
No relevant studies identified.

13. DISPOSAL

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>DOT CFR 172.101 Data</th>
<th>Not Regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Proper Shipping Name</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>UN Class</td>
<td>None</td>
</tr>
<tr>
<td>UN Number</td>
<td>None</td>
</tr>
<tr>
<td>UN Packaging Group</td>
<td>None</td>
</tr>
<tr>
<td>Classification for AIR Transportation (IATA)</td>
<td>Consult current IATA Regulations prior to shipping by air</td>
</tr>
</tbody>
</table>
15. REGULATORY INFORMATION

EU Label Information
Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger

R phrases
None

S phrases
None

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing
All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

EINECS Listing
All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

DSL (Canadian) Listing
All ingredients in this product are listed on the Domestic Substance List (DSL).

MA Right To Know Law
All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimis concentration include: - Paraffin

PA Right To Know Law
This product contains the following chemicals found on the Pennsylvania Hazardous Substance List: - Paraffin

NJ Right To Know Law
This product does not contain any chemicals on the New Jersey Workplace Hazardous Substance List.

California Proposition 65
This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)
This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304
This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization
Immediate (Acute) Health Hazard

SARA Title III Sect. 313
This product does not contain a chemical that is listed in Section 313 at or above de minimis concentrations.
16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Flammability - 1
NFPA Code for Health - 1
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Flammability - 1
HMIS Code for Health - 1
HMIS Code for Reactivity - 0
HMIS Code for Personal Protection - See Section 8

Abbreviations
N/A: Denotes no applicable information found or available CAS#: Chemical Abstracts Service Number
ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
R: Risk
S: Safety
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient

Prepared By: Avantik Biogroup
The information and recommendations presented in this SDS are based on sources believed to be accurate; therefore, Avantik Biogroup assumes no liability for the accuracy or completeness of this information. It is the user’s responsibility to determine the suitability of the information for their particular purposes.

Revision Date: March 31, 2009