

## SPI Supplies Division

Structure Probe, Inc.

206 Garfield Ave., West Chester, PA 19381-0656 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

[sds@2spi.com](mailto:sds@2spi.com)

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

## Safety Data Sheet

Date Effective: March 21, 2017

**SPI #02847-AB and 02847A-AB Paraplast® Tissue Embedding Medium**

### Section 1.1: Identification

Chemical Name/Synonyms ..... Paraplast® Tissue Embedding Medium; Paraffin Wax

Chemical family ..... Hydrocarbon wax

Product or Trade Name ..... SPI #02847-AB and 02847A-AB Paraplast® Tissue Embedding Medium

CAS #'s ..... 8002-74-2

Chemical Formula..... Not known

### Section 1.2: Relevant Uses/Restrictions

Conditions of Use: To be used as a tissue embedding medium in a laboratory setting.

### Section 1.3: Supplier of the Safety Data Sheet

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### Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

### Section 2: Hazard Identification

2.1 Classification of the substance

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute Toxicity, Category 4

Skin Irritant, Category 2

Eye Irritant, Category 2b

## 2.2 Label elements

### Pictogram



Signal Word: Warning

### Hazard statements:

- H332: Harmful if inhaled.
- H315: Causes skin irritation
- H320: Causes eye irritation.

### Precautionary statements:

- P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P280: Wear protective gloves.
- P264: Wash thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P305 + 351 + 338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321: Specific treatment (see on this label).
- P304 + 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a poison center/ doctor if you feel unwell.
- P332 + 313: If skin irritation occurs: Get medical advice/ attention.
- P337 + 313: If eye irritation persists: Get medical advice/ attention.
- P302 + 352: If on skin: Wash with plenty of soap and water.
- P362: Take off contaminated clothing and wash it before reuse.
- P403 + 233: Store in a well-ventilated place. Keep container tightly closed.
- P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

## 2.3 Other Hazards:

### Hazardous Material Information System USA

- Health ..... 2
- Fire Hazard ..... 1
- Reactivity ..... 0
- Personal Protection .....

### NFPA Rating (estimated)

- Health ..... 2
- Flammability..... 1
- Reactivity ..... 0

## **Section 3: Composition**

### 3.1 Substances:

## **Section 4: First Aid Measures**

### 4.1 Description of first aid measures:

**Eye contact:** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if irritation persists.

**Skin:** Does not generally irritate the skin. If skin irritation develops, or other symptoms occur, discontinue use. Seek medical attention if symptoms persist.

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

**Ingestion:** If symptoms persist, consult doctor.

**Advice to physicians:** Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed  
None noted.

4.3 Indication of any immediate medical attention and special treatment needed  
None noted.

## **Section 5: Fire Fighting Measures**

### **5.1 Extinguishing media**

Not flammable. Select extinguishing agent appropriate to other materials involved

### **5.2 Special hazards arising from the substance or mixture**

This product may give rise to hazardous fumes in a fire

**Hazardous decomposition products:** Acrid smoke and irritating fumes – oxides of carbon

### **5.3 Advice for firefighters**

Special protective equipment and precautions for firefighters

Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.

**Flash point (PMCC):** 220° C (428° F)

**Ignition Temperature:** >300 ° C (>572 °F)

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions**

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

Wear appropriate protective clothing.

Avoid dust formation.

Avoid breathing vapors, mist or gas.

### **6.2 Environmental precautions**

None noted.

### **6.3 Methods and material for containment and cleaning up**

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

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

#### 6.4 Reference to other sections

For disposal see Section 13.

### **Section 7: Handling and Storage**

#### 7.1 Precautions for safe handling

Protective measures: Further processing of solid materials may result in the formation of combustible dusts.

Advice on general hygiene conditions: Provide appropriate exhaust ventilation at places where dust is formed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use. Storage area should be cool, dry, well ventilated, and away from incompatible materials. Store in a cool, dry area, away from direct heat or sunlight.

#### 7.3 Specific end uses

No specific end uses other than those mentioned in Section 1.2.

This material is not being offered for clinical or diagnostic applications, agricultural uses or for human or animal consumption.

### **Section 8: Exposure Controls and Personal Protection**

#### 8.1 Control parameter and Personal Protection

Workplace exposure limits

Component	CAS#	Value	Control Parameter	Basis
Paraffin Wax	8002-74-2	TWA	2.00000 mg/m <sup>3</sup>	USA ACGIH TLV
remark: Upper respiratory tract irritation, Nausea				
Paraffin Wax	8002-74-2	TWA	2.00000 mg/m <sup>3</sup>	USA NIOSH REL

TLV = Threshold Limit Value

REL = Recommended Exposure Limit

#### 8.2 Exposure controls

##### General:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the skin.

**Eyes:** Chemical splash goggles.

**Hands:** Chemical resistant gloves

**Respiratory:** If there is a risk of breathing mists or vapors from heating material:

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Body:** Normal work wear.

#### 8.2.3 Environmental exposure controls

No special environmental precautions required.

## **Section 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

**Physical state:** Waxy pellets

**Color:** Colorless – white - translucent

**Odor:** Odorless

**Odor threshold:** No data

**pH:** No data

**Boiling Point:** >315 °C (>599 °F)

**Melting point/Freezing point:** 52-54 °C (126-129 °F) depending on grade

**Flash point (PMCC):** 220 °C (428 °F)

**Ignition temperature:** >300 °C (>572 °F)

**Explosion limits:** Product does not present an explosion hazard.

**Density:** 0.8 g/cm<sup>3</sup> (at 20 °C, 68 °F)

**Viscosity:** No data

**Solubility in water:** 0.001 g/l (at 20 °C, 68 °F)

**Vapor Density:** No data

### **9.2 Other information**

No additional information available.

## **Section 10: Stability and Reactivity**

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical Stability

No further relevant information available.

### 10.3 Possibility of Hazardous Reactions

No further relevant information available.

### 10.4 Thermal decomposition / Conditions to avoid

No decomposition if used according to specifications.

### 10.5 Incompatible materials

No further relevant information available.

- 10.6 Hazardous decomposition products  
No dangerous decomposition products known.

## **Section 11: Toxicological Information**

Information on the likely routes of exposure

- 11.1 Information on toxicological effects
- a. acute toxicity  
No relevant information available.
  - b. skin corrosion/irritation  
No irritant effect.
  - c. serious eye damage/irritation  
Irritant effect.
  - d. respiratory or skin sensitization  
No sensitizing effects known.
  - e. germ cell mutagenicity  
No relevant information available.
  - f. carcinogenicity  
Not listed by IARC, NTP, OSHA-Ca.
  - g. reproductive toxicity  
No relevant information available.
  - h. STOT-single exposure  
No relevant information available.
  - i. STOT-repeated exposure  
No relevant information available.
  - j. aspiration hazard  
No relevant information available.

## **Section 12: Ecological Information**

- 12.1 Toxicity  
Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability  
No further relevant information available.
- 12.3 Bio-accumulative potential  
No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

Additional ecological Information: General Notes: Generally not hazardous for water.

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

#### 12.6 Other adverse effects

No further relevant information available.

### **Section 13: Disposal Considerations**

#### 13.1 Waste treatment methods

##### Recommendations:

Must not be disposed of together with household garbage.

Do not allow product to reach sewage systems.

##### Uncleaned Packagings:

Disposal must be made according to official regulations.

### **Section 14: Transport Information**

DOT: Not dangerous goods.

IATA: Not dangerous goods.

IMDG: Not dangerous goods.

### **Section 15: Regulatory Information**

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

**TSCA 8b:** All ingredients have been verified for inclusion on the EPA Toxic Substance Control Act Chemical Substance Inventory.

**SARA 302:** This product does not contain any chemicals subject to SARA Title III Section 302

**SARA 304:** This product does not contain any chemicals subject to SARA Title III Section 304

#### **SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **State Right to Know Components:**

CAS# 8002-74-2 is listed on the Massachusetts, New Jersey and Pennsylvania Right-to-Know Lists.

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

#### **Canada**

**DSL:** All ingredients in this product are listed on the Domestic Substance List

**WHMIS:** No ingredients listed

## 15.2 Chemical Safety Assessment

Date of Preparation: March 20, 2017

### **Abbreviations and acronyms**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
CMRG: Chemical Manufacturer's Recommended Guidelines  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
AIHA: American Industrial Hygiene Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bio-accumulative and Toxicological  
vPvB: very Persistent and very Bio-accumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

## **Section 16: Other Information**

### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

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