

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 22, 2017

**SPI #02846-AB and 02846A-AB Paraplast® Plus
Tissue Embedding Medium**

Section 1.1: Identification

Chemical Name/Synonyms Paraplast® Plus Tissue Embedding Medium

Chemical family Hydrocarbon wax

Product or Trade Name SPI #02846-AB and 02846A-AB Paraplast® Plus Tissue Embedding Medium

CAS #'s 8002-74-2; 67-68-5

Chemical Formula..... Mixture

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 (ingestion, inhalation, skin contact)

Eye Irritant, Category 2b

2.2 Label elements

Pictogram



Signal Word: Warning

Hazard statements:

- H302: Harmful if swallowed
- H312: Harmful in contact with skin.
- H332: Harmful if inhaled.
- H320: Causes eye irritation.

Precautionary statements:

- P210: Keep away from heat/ sparks/ open flames/ hot surfaces – No smoking.
- P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- 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).
- P301 + 312: IF SWALLOWED: Call a POISON CENTER or doctor/physician.
- P330: Rinse mouth.
- P304 + 340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 + 235: Store in a well-ventilated place. Keep cool.
- P402 + 404: Store in a dry place. Store in a closed container.
- P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

2.3 Other Hazards:

Hazardous Material Information System USA

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

NFPA Rating (estimated)

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

Section 3: Composition

3.2. Mixture

Paraffin and Hydrocarbon waxes	CAS # 8002-74-2	EC Number: 232-315-6	>=95 - <100%
Dimethyl sulfoxide	CAS# 67-68-5	EC Number: 232-315-6	<=2.5%

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

Use fire-fighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

Section 6: Accidental Release Measures

6.1 Personal precautions

Not required.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

6.4 Reference to other sections

For disposal see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use.
No special requirements.

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	
Paraffin Wax	8002-74-2	REL	2.00000 mg/m ³	Long-term value
Paraffin Wax	8002-74-2	TWA	2.00000 mg/m ³	Long-term value
DMSO	67-68-5	WEEL	250 ppm	Long-term value

TLV = Threshold Limit Value

REL = Recommended Exposure Limit

WEEL = Workplace Environment Exposure Levels

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: Breathing equipment not required.

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: Characteristic

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.

Auto igniting: Not determined

Density: 0.8 g/cm³ (at 20 °C, 68 °F)

Partition coefficient (n-octanol/water): Not determined

Viscosity: No data

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

VOC content: 1.0%

Solids content: 98.0%

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 dangerous reactions known.

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: Substance is listed.

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 22, 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

WEEL: Workplace Environment Exposure Levels

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 of fluids.

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