

SPI Supplies Division

Structure Probe, Inc.

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Manufacturer's CAGE: 1P573

Safety Data Sheet

Date Effective: March 22, 2017

**SPI #02845-AB and 02845A-AB Paraplast® X-tra
Tissue Embedding Medium**

Section 1.1: Identification

Chemical Name/Synonyms Paraplast® X-tra Tissue Embedding Medium; Paraffin Wax

Chemical family Hydrocarbon wax

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

CAS #'s 8002-74-2, 128-37-0

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 aquatic toxicity, Category 3

Chronic aquatic toxicity, Category 3

2.2 Label elements

Pictogram : none

Signal Word: none

Hazard statements:

H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.

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 0

Fire Hazard 0

Reactivity 0

Personal Protection

NFPA Rating (estimated)

Health 2

Flammability..... 0

Reactivity 0

Section 3: Composition

3.2. Mixtures:

Paraffin and Hydrocarbon waxes	CAS # 8002-74-2	EC Number: 232-315-6	50-100%
2,6-di-tert-Butyl-p-cresol	CAS # 128-37-0	EC Number: 204-881-4	2.5-10%

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

CO₂, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Special protective equipment and precautions for firefighters: No special measures required.

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

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

No special measures required.

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	TWA	2.00000 mg/m ³

remark: Upper respiratory tract irritation, Nausea

Paraffin Wax	8002-74-2	REL	2.00000 mg/m ³	
2,6-dit-tert-Butyl-p-cresol	128-37-0	REL	10 mg/m ³	Long term value
2,6-di-tert-Butyl-p-cresol	128-37-0	TLV	2* mg/m ³	Long term value

*as inhalable fraction and vapor

TLV = Threshold Limit Value

REL = Recommended Exposure Limit

8.2 Exposure controls

General:

The usual precautionary measures for handling chemicals should be followed.

Eyes: Chemical splash goggles recommended.

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 - translucent

Odor: Characteristic

Odor threshold: No data

pH: No data

Boiling Point: undetermined

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

Flash point: Not applicable

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

Explosion limits: Product does not present an explosion hazard.

Density: ca.0.90 g/cm³ (at 20 ° C, 68 ° F) (ca.7.511 lbs/gal)

Viscosity: No data

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

Vapor Density: No data

Organic Solvent Content: 0.0%

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

No irritating eye effect.

d. respiratory or skin sensitization

No sensitizing effects known.

e. germ cell mutagenicity

No relevant information available.

- f. carcinogenicity
CAS # 128-27-0, 2,6-di-tert-Butyl-p-cresol, is listed by IARC.
None of the ingredients is listed by NTP or 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.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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.

Water hazard class 1 (Self-assessment):
Do not allow undiluted product or large quantities of product to reach ground water, water course, or sewage system.

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:
Smaller quantities can be disposed of with household waste.
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: All ingredients are 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

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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