



MATERIAL SAFETY DATA SHEET

(In accordance with ISO 11014-1 Standard)

Product Name: Tissue-Tek[®] Paraform[®] Processing/Embedding Medium, Formula 1
Tissue-Tek[®] Paraform[®] Processing/Embedding Medium, Formula 2

Revision Date: 2008-12-01

1. Identification of the Substance

Product Name: Tissue-Tek[®] Paraform[®] Processing/Embedding Medium, Formula 1 – (Product Code #7050)
Tissue-Tek[®] Paraform[®] Processing/Embedding Medium, Formula 2 – (Product Code #7051)

Synonym(s): N/A

General Use: Tissue Processors and Embedding Systems

Manufactured For: Sakura Finetek USA, Inc.
Torrance, CA 90501 USA
Tel: 310-972-7800

Emergency Telephone Number:
800-424-9300 (Chemtrec)

2. Composition/Data on Components

Hazardous Component Specific Chemical Identity	Synonyms	CAS #	% Weight
Paraffin	Paraffin Wax	8002-74-2 232-315-6	>99
Polyisobutylene	2-Methylpropene Polymer	9003-27-4 204-066-3	<1

3. Hazards Identification

Main Hazards: Not classified as hazardous

Routes of Entry: Eye contact, skin contact

Carcinogenic Status: Not considered carcinogenic by NTP, IARC, and OSHA

Health Effects

Eyes: Contact may cause slight transient irritation.

Skin: Material may cause irritation.

Ingestion: No adverse effects are expected.

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.

HMIS Rating

Health: 1
Flammability: 1
Reactivity: 0
Protection: C

HMIS Rating Scale

Minimal: 0
Slight: 1
Moderate: 2
High: 3
Severe: 4

HMIS Rating Notes:

Protection = C (Safety glasses, gloves, apron)

4. First Aid Measures

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

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.

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.

Eye: 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.

Advice to Physicians: Treat symptomatically.

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5. Fire Fighting Measures

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

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

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 cleanup. 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 containers closed when not in use. Storage area should be cool, dry, and well ventilated. Keep away from incompatible materials.

8. Exposure Controls/Personal Protection

Occupational Exposure Standards:

Paraffin: (fume) ACGIH: TLV 2mg/m³ 8h TWA

UK EH40: OES 2mg/m³ 8h TWA.

UK EH40: OES 6mg/m³ 10min TWA.

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 is necessary 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

Physical State: Waxy pellets

Color: Colorless, white, translucent

Odor: Odorless

pH: No data available

Specific Gravity/Density: No data available

Boiling Point: No data available

Melting Point: 117-149°F (47-65°C), depending on the grade.

Flash Point: 410°F (210°C)

Auto-flammability (°C): No data available

Explosion Limits (%): No data available

Density: No data available

Vapor Pressure: No data available

Solubility in water: Insoluble

Vapor Density (Air=1): No data available

Viscosity (cSt): No data available

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, high temperatures, pressure, mechanical shock.

Materials To Avoid: Reducing agents, strong acids.

Hazardous Decomposition Products: Toxic oxides of carbon such as carbon monoxide, carbon dioxide, and aldehydes.

Hazardous Polymerization: Will not occur.

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11. Toxicological Information

Acute Toxicity: A 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: The genotoxicity properties of this product have not been fully investigated.

Reproductive/Developmental Toxicity: The reproductive and developmental properties of this product have not been fully investigated.

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. Advice on Disposal

Dispose of in accordance with all applicable Federal, State, and Local regulations (see sections 15).

14. Transport Information

DOT CFR 172.101 Data: Not regulated.

UN Proper Shipping Name: Not regulated.

UN Class: None.

UN Number: None.

UN Packaging Group: None.

15. Regulatory Information

Labeling Information: Health: Not Classified; Safety: Not Classified; Environment: Not Classified

EC Annex/Classification: According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases: None

S phrases: None

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 the European List of New Chemical Substances (ELINCS) or are exempt from listing.

DSL/NDSL (Canadian) Listing: All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

PA Right to Know Law: This product contains the following chemical 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.

CA 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 chemical 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 which is listed in Section 313 at or above de minimis concentrations.

16. Other Information

This Material Safety Data Sheet has been furnished on request. A revised Material Safety Data Sheet will be furnished only if requested, also in case of specification changes. The above information, which is accurate to the best of our knowledge and belief, describes the safety aspects of our product but does not warrant any product properties. The company gives no warranty as to the accuracy or completeness of such information.

0002012-04 Rev B