



**SPI Supplies Division**

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Manufacturer's CAGE: 1P573

# Material Safety Data Sheet

[SPI #01846-AB, -BC; 01847-AB, -BC Parafilm Grafting Tape; 01851-AB, -CA; 01852-AB, -CA; 01853-AB, -CA; 01854-AB, -AG Parafilm M Laboratory Sealing Film](#)

## Section 1: Identification

Section 1: Identification of Product

Date Effective..... January 8, 2009  
(most recent revision)

Chemical Name/Synonyms..... Hydrocarbon wax

Chemical family..... Hydrocarbon wax

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s.....  
 Worldwide phone: 1-(703)-527-3887  
 Worldwide FAX: 1-(703)-741-6090  
 Toll-free phone: 1-(800)-424-9300 USA only


Product or Trade Name..... Parafilm M and Parafilm Grafting Tape

CAS #..... None assigned

Chemical Formula.....  $-(CH_2-CH_2)-$



<b>Hazardous Material</b>	Health	0	<b>National Fire Protection</b>

<b>Information System USA</b>	<b>Fire Hazard</b>	1	<b>Association USA</b>	
	<b>Reactivity</b>	0		
	<b>Personal Protection</b>			

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

## Section 2 Composition

Component Name	CAS #	OSHA PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	Carcinogenic
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Listing

No data available

Proprietary additives	N/L	N/L	N/L	N/L	N/L
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Note: N/L = Not listed

Concentration by

Wt/Mol%	Avg.	Min.	Max.
98.0	100.0	0.0	2.0

## Section 3: Hazards Identification

Emergency overview:

This material is not hazardous by OSHA Hazard Communication Definition

Signal Word

CAUTION!

Physical Health Hazards:

Dust may form explosive mixtures with air. Molten Parafilm may cause thermal burns. Irritating fumes may be produced at elevated temperatures.

Physical state: Solid

Color: Translucent to white

Odor: Faint, mild hydrocarbon odor

Odor threshold: No data available

Potential Health Effects:

Routes of exposure:

Ingestion, skin contact

Signs and Symptoms of Acute Exposure:

Molten product may cause thermal burns. At elevated temperatures, irritating fumes may cause soreness in the nose and throat, coughing may result.

Skin contact:

Molten product may cause thermal burns

Inhalation:

At elevated temperatures irritating fumes may be produced. Inhalation of such fumes may cause soreness in the nose and throat and coughing. Inhaling Parafilm dust is considered a nuisance.

Eye contact:

Mechanical irritation is possible if abraded into a dust form.

Ingestion:

Ingestion is unlikely

Chronic Health Effects Summary:

No known chronic health effects.

Polyethylene Homopolymer:

Conditions Aggravated by Exposure:

No known conditions are aggravated by this material.

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## Section 4: First Aid Measures

Take proper precautions to ensure your own health and safety before attempting to rescue and providing first aid. For specific information refer to the Emergency Overview in Section of this MSDS.

Inhalation: If symptoms are experienced, move victim to fresh air, if symptoms persist, obtain medical attention.

Eye Contact: Wash eyes with clean low-pressure water. If irritation persists, seek medical advice.

Skin Contact: If molten material contacts the skin, immediately flush the skin with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel the Parafilm wax from skin. Get medical attention immediately.

Ingestion: Adverse health effects due to ingestion are not anticipated. If gastric irritation or discomfort persists, seek medical advice.

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## Section 5: Fire Fighting Measures

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

Flammability classification:

The Parafilm wax will burn just like a candle wax. It will ignite by any open flame.

Flash Point/Method: Not applicable

Auto-Ignition Temperature: Not known

Flammable Limits: Lower: Not applicable  
Upper: Not applicable

Hazardous Combustion Products:

Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.

Special Conditions to Avoid:

Polyolefin dust particles in the atmosphere are combustible and may be explosive. Keep away from heat, sparks, flame and all other ignition sources. If the product is abraded, clean up dust accumulations. Prevent dust accumulations and dust clouds,

Extinguishing Media:

Small fires: Use dry chemicals, CO<sub>2</sub>, water spray.

Large fires: Use dry chemicals, CO<sub>2</sub>, water spray.

Fire Fighting Instructions:

Protective Equipment/Clothing: Wear a NIOSH approved positive pressure self-contained breathing apparatus and firefighter

turnout gear.

Instructions: Use flooding quantities of water until well after fire is out.

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## Section 6: Accidental Release Measures

Release response:

Pick up and retain for recycle or disposal.

Reportable Quantities: See Section 15: Regulatory information.

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## Section 7: Handling and Storage

Handling: No particular precautions needed.

Storage: Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination. Maximum shelf life without deterioration is three years if stored between 7°C and 32°C and 50% relative humidity.

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## Section 8: Exposure Controls and Personal Protection

Engineering Controls: If user operations generate dust or fumes, ventilate area to prevent accumulation. For the normal use in a laboratory environment, we would not anticipate any dust being formed.

Personal Protection:

Inhalation: None needed except in the case where dust is being generated, in which case, use appropriate respiratory protection where atmosphere exceeds recommended limits (for polyolefins).

Total Dust (PNOC): ACGIH 10mg/M3, OSHA 15 mg/M3.

Respirable Dust (PNOC) ACGIH 3 mg/M3, OSHA 5 mg/M3.

Skin: Protective clothing such as long sleeves or a lab coat should be worn. When handling heated materials, also be sure to use heat-resistant gloves, boots and face protection.

Eye: Always use safety glasses when working in the laboratory.

## Section 9: Physical and Chemical Properties

Boiling Point/Range: Not applicable

pH: Not applicable

Vapor Pressure: Not applicable

Viscosity: Not applicable

Specific Gravity:

    Solid/Liquid Not known

    Vapor Not applicable

Water solubility: Insoluble

Octanol/Water Partition Coefficient in Kow: Specific value not known

Melting/Freezing Point: Material becomes "sticky" at ~ 130 - 150°F (55-66°C).

Evaporation Rate: Not applicable

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## Section 10: Stability and Reactivity

Chemical Stability: The product is stable

Conditions to Avoid: Avoid contact with strong oxidizers, excessive heat, sparks or open flame or dust accumulation.

Incompatibility with: Chlorine, fuming nitric acid and strong oxidizing agents.

Hazardous Products of Deposition: Not expected to decompose under normal conditions.

Reactions with Air and Water: Does not react with air, water or other common materials.

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## Section 11: Toxicological Information

Summary: Not considered to be toxic to humans or animals

Skin Effects: No skin effects are expected from Parafilm contact.

Acute Oral Effects: Not known

Acute Inhalation Effects: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats. We would expect that inhalation of Parafilm dust could have similar effects.

Subchronic Effects: For polyethylen, subchronic, 50-90 day, feeding studies conducted on rats, dogs, and swine showed no effects from dietary levels of 1 to 20% powdered and shredded polyethylene. IARC has listed polyethylene as a Group 3 substance (not classifiable as to carcinogenicity to humans). Although Parafilm is not polyethylene, we believe it is sufficiently close in composition that one could infer similar effects.

Chronic Effects/Carcinogenicity:  
None expected

Reproductive/Development Effects:  
No reproductive or developmental effects are expected.

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## Section 12: Ecological Information

Exotoxicity: Exotoxicity is expected to be low based on the low water solubility of polymers.

Environmental Fate: No information found in our selected references.

Bioaccumulation: Not expected to occur.

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## Section 13: Disposal Considerations

This material is NOT classified as a hazardous material by RCRA. Use only licensed transporters and permitted disposal facilities and conform to all laws.

Recycle to process, if possible.

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## Section 14: Transport Information

Proper Shipping Name: Wax

DOT Hazard Class: Non-Regulated

UN/NA ID: Not Regulated

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No

NAER Guidebook: Not Regulated

DOT Status: Not Regulated

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## Section 15: Regulatory Information

TSCA: All components of this product are listed on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification Rule, they will be listed below.

TSCA 12(b) Component	Listed under TSCA Section
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SARA-Section 313 Emissions Reporting:

Component	Reporting Threshold
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SARA-Section 311/312: No components present in this product are subject to the reporting requirements of this statute.

CERCLA Hazardous Substances and their Reportable Quantities:

Component	Reportable Quantity
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### California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

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## Section 16: Other Information

### Disclaimer of Liability:

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Index

Return to:

- [SPI Supplies MSDS Safety Sheets Table of Contents](#)
- [SPI Supplies Catalog Table of Contents](#)
- [SPI Supplies Home Page](#)

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