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# Material Safety Data Sheet

**SPI #05057-AB LEIT-C-Plast™ Carbon Cement; 05064-AB Refill, Leit-C-Plast™**

## Section 01 Identification

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

Chemical Name/Synonyms.. Polyisobutylene, carbon  
 black filled

Chemical family..... Polyisobutylene

### Emergencies

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

Product or Trade Name.... SPI # **05057-AB** LEIT-C-Plast™ Carbon Cement  
 SPI # **05064-AB** Refill, Leit-C-Plast™

CAS #..... Not assigned

Chemical Formula..... Not available



## Section 2 Composition

### Description:

Graphite in polyisobutylene (molecular weight approximately 40 ,000)

### Section 3: Hazard Identification

**Emergency overview:**

This material is not hazardous by OSHA Hazard Communication Definition

**Physical Health Hazards:**

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

**Physical state:** Solid

**Color:** Black

**Odor:** None at room temperature

**Odor threshold:** No data available

**Potential Health Effects:****Routes of exposure:**

Eye contact, ingestion, skin contact are all highly unlikely.

**Signs and Symptoms of Acute Exposure:**

Molten polymer may cause thermal burns. At process temperatures, irritating fumes may cause soreness in the nose and throat, coughing may result. Mechanical irritation is possible.

**Skin contact:**

Molten polymer may cause thermal burns

**Inhalation:**

At process temperatures irritating fumes may be produced. Inhalation of process fumes may cause soreness in the nose and throat and coughing. Inhaling Leit-C-Plast dust could be irritating.

**Eye contact:**

Mechanical irritation is possible if the material is abraded into a powder.

**Ingestion:**

Ingestion is unlikely

**Chronic Health Effects Summary:**

No known chronic health effects.

**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. Good laboratory hygiene practices should be observed at all times.

**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. This situation would arise only if the product is abraided into a powder.

**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 polymer 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

### Special Conditions to Avoid:

Polyisobutylene dust particles in the atmosphere can be combustible and may be explosive. Keep away from heat, sparks, flame and all other ignition sources. Keep container closed. Clean up dust accumulations. Prevent dust accumulations and dust clouds.

### Extinguishing Media:

Small fires: Water, foam, carbon dioxide, dry powder

### Fire and Exposure Hazard:

May evolve carbon monoxide and carbon dioxide

### Special protective equipment:

None

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## Section 6: Accidental Release Measures

**Precautionary measures related to people:** None

**Environmental protective measures:** No special requirements.

**Methods of cleaning/absorption:** Remove mechanically

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## Section 7: Handling and Storage

**Handling:**

No special precautions required. Avoid breathing vapors when heated.

**Storage:**

No special precautions required.

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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.

**Personal protection:**

**General:** Always observe good laboratory hygiene practices.

**Eye:** Always use safety glasses, even for work with small quantities, such as the mounting of samples for SEM examination.

**Ingredients with threshold limit values to be monitored:** None

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## Section 9: Physical and Chemical Properties

**Appearance:** Highly viscous to solid material, black color

**Odor:** None

**Boiling Point/Range:** Not applicable

**Ignition Temperature:** > 340° C

**pH:** Not applicable

**Vapor Pressure:** Not applicable

**Viscosity:** Not applicable

**Specific Gravity:**

Solid/Liquid	0.93 g/cc (Per DIN 43 379)
Vapor	Not applicable

**Water solubility:** Insoluble

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

**Melting/Freezing Point:** Not known

**Evaporation Rate:** Not applicable

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## Section 10: Stability and Reactivity

**Chemical Stability:**

The product is stable; thermal decomposition > 390° C by DTA.

**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:**

Monomers, ignitable vapors/fumes

**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

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## Section 12: Ecological Information

**Exotoxicity:**

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

**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.

Product and packaging must be disposed of in accordance with local and national regulations after consultation with the competent local authorities and the disposal company in a suitable and licensed facility.

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## Section 14: Transport Information

**Proper Shipping Name:** Not Regulated

**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:**

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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Search  
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Index

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Return to:

- [SPI Supplies MSDS Safety Sheets Table of Contents](#)
- [SPI Leit-C™ Adhesive Products Page](#)
- [SPI Supplies Catalog Table of Contents](#)
- [SPI Supplies Home Page](#)

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