SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Black Butyl mastic extrusion on release carrier
PRODUCT CODE: 050199, 050200, 050202, 050204, 050206, 050210, 050212, 050214, 050221, 050222, 050223, 050224

MANUFACTURER
Design Engineering, Inc.
604 Moore Rd. Avon Lake Ohio 44012
Customer Service: 440-930-7940
e-mail: sales@designengineering.com

2. HAZARDS IDENTIFICATION

GHS LABEL
No labeling applicable

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE: Black mastic.
IMMEDIATE CONCERNS: May cause skin or eye irritation after repeated or prolonged contact.

POTENTIAL HEALTH EFFECTS
EYES: Contact may cause eye irritation.
SKIN: Prolonged or repeated contact may cause skin irritation. Contact with heated product may result in burns.
SKIN ABSORPTION: None Expected.
INGESTION: Not a likely route of entry.
INHALATION: Not a likely route of entry.
COMMENTS: The Health hazards of this product should be low under normal industrial and commercial use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>~ 0.58</td>
<td>1333-86-4</td>
</tr>
<tr>
<td>Silica, Amorphous</td>
<td>&lt; 1.5</td>
<td>112926-00-8</td>
</tr>
<tr>
<td>Silica, Crystalline</td>
<td>&lt; 2.2</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
INGESTION: Normally not needed. If large quantities are ingested, seek medical advice.
INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
SAFETY DATA SHEET

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause skin or eye irritation after repeated or prolonged contact.
SKIN: Substance may cause slight skin irritation.
SKIN ABSORPTION: None Expected.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide or foam. Treat as a petroleum fire.
HAZARDOUS COMBUSTION PRODUCTS: CO, CO2, and hydrocarbons
EXPLOSION HAZARDS: None Expected.
FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.
HAZARDOUS DECOMPOSITION PRODUCTS: If heated to decomposition, may emit toxic and/or irritating fumes.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb spilled material and place in appropriate container for disposal.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: May cause skin or eye irritation after repeated or prolonged contact.
HANDLING: Use of proper hygiene practices in the workplace is recommended.
STORAGE: Keep in a cool, well ventilated place
STORAGE TEMPERATURE: Store in a cool place below (120) F (49) C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Supplier OEL</th>
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<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
<td>ppm</td>
</tr>
<tr>
<td>Silica, Amorphous</td>
<td>TWA 20 mpp</td>
<td>80 ppm</td>
<td></td>
</tr>
<tr>
<td>Silica, Crystalline</td>
<td>TWA 250 mpp</td>
<td>10 ppm</td>
<td>0.025 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Where contact with this material is possible, eye protection is recommended. May cause skin or eye
irritation after repeated or prolonged contact.

**SKIN:** Use of proper hygiene practices in the workplace is recommended.

**RESPIRATORY:** Good general ventilation should be sufficient to control airborne levels.

**WORK HYGIENIC PRACTICES:** May cause skin or eye irritation after repeated or prolonged contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Faint, characteristic odor.

**APPEARANCE:** Soft solid.

**COLOR:** Black

**FLASH POINT AND METHOD:** > (450°F) COC

**FLAMMABLE LIMITS:** 0 to 0

**Notes:** Not Established

**AUTOIGNITION TEMPERATURE:** Not Established

**SPECIFIC GRAVITY:** ~ 1.5

### 10. STABILITY AND REACTIVITY

**REACTIVITY:** Yes

**HAZARDOUS POLYMERIZATION:** Will not occur.

**STABILITY:** Stable

**HAZARDOUS DECOMPOSITION PRODUCTS:** In case of fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

**INCOMPATIBLE MATERIALS:** Incompatible with strong solvents.

### 11. TOXICOLOGICAL INFORMATION

**CARCINOGENICITY**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP Status</th>
<th>IARC Status</th>
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<tbody>
<tr>
<td>Silica, Crystalline</td>
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<td>1</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

**GENERAL COMMENTS:** Not Established

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of this product in accordance with all applicable local, state and federal regulations.
## SAFFETY DATA SHEET

**Date Prepared:** 05/21/2015

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not regulated

### 15. REGULATORY INFORMATION

#### UNITED STATES

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

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</table>

**CALIFORNIA PROPOSITION 65**

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<th>Wt.%</th>
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<tbody>
<tr>
<td>Carbon Black</td>
<td>~ 0.58</td>
<td>Cancer</td>
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### 16. OTHER INFORMATION

**Date Prepared:** 05/21/2015

**HMIS RATING**

<table>
<thead>
<tr>
<th>HEALTH</th>
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<tbody>
<tr>
<td>FLAMMABILITY</td>
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</tr>
<tr>
<td>PHYSICAL HAZARD</td>
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<tr>
<td>PERSONAL PROTECTION</td>
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</table>

**NFPA CODES**

<table>
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<tr>
<th>HEALTH</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
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</tbody>
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