Section 1 - Product and Company Identification

Material Name - Black Jack Fibered Roof Coating
Chemical Category - Mixture
Product Code - 6125-9-30
Product Description - Black fibered asphalt roof coating.
Product Use - Roof Coating.
Manufacturer - Gardner-Gibson
4161 E. 7th Avenue
Tampa, FL 33605
United States

Telephone
Technical - 813-248-2101
Emergency - 800-424-9300

Last Revision Date - 4/28/2015

Section 2 - Hazards Identification

GHS HAZARDS AND PRECAUTIONS
SIGNAL WORD: WARNING!

Flammable liquid and vapor. Contains Combustible Petroleum Distillates. Harmful or Fatal if swallowed. Keep away from heat, sparks, and open flame. Avoid prolonged breathing of vapor and use only in adequate ventilation. Repeated and prolonged overexposure to solvent vapor may cause brain and nervous system damage, respiratory tract irritation, dizziness, or loss of consciousness. May cause skin and eye irritation.

Prevention
Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist, vapours and/or spray. Keep away from flames and hot surfaces. - No smoking. Wear protective gloves, clothing, and eye/face protection.

Response
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Storage/Disposal
Store in a closed container. Store in a well-ventilated place. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Physical Form - Liquid
Color - Black
Odor - Mild Hydrocarbon.
Flash Point - 105°F(40.5°C)
OSHA(HCS2012) - Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenicity - Category 1A
WHMIS - Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A
- R65, R25, R36/37/38, R45

**GHS**
- Flammable Liquids - Category 3, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2A, Carcinogenicity - Category 1A

**Route Of Entry**
- Inhalation, Skin, Eye, Ingestion/Oral

**Potential Health Effects**

**Inhalation**
- **Acute (Immediate)**: May cause irritation. Excessive breathing of high vapor concentration can cause possible unconsciousness and even asphyxiation.
- **Chronic (Delayed)**: Refer to other information found in Section 11-Toxicology.

**Skin**
- **Acute (Immediate)**: May cause irritation.
- **Chronic (Delayed)**: Repeated and prolonged exposure may be harmful. Repeated and prolonged exposure to the skin may cause dermatitis.

**Eye**
- **Acute (Immediate)**: May cause irritation.
- **Chronic (Delayed)**: Repeated and prolonged exposure may cause irritation.

**Ingestion**
- **Acute (Immediate)**: May be harmful or fatal if swallowed.
- **Chronic (Delayed)**: Repeated and prolonged exposure may be harmful.

### Carcinogenic Effects

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Group 2B-Possible Carcinogen</td>
<td>Under Consideration</td>
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</tbody>
</table>

### Section 3 - Composition/Information on Ingredients

#### Hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>% (wt)</th>
<th>UN;EINECS</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>45% TO 50%</td>
<td>NA1999, 232-490-9</td>
<td>Ingestion/Oral-LD50 ≥5000 mg/kg Inhalation-Rat LC50 ≥94.4 mg/m³</td>
<td>WHMIS: Other Toxic Effects - D2A; UN GHS: Carc. 2; Eye Irrit. 2A; Skin Irrit. 2</td>
<td>NDA</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>8052-41-3</td>
<td>15% TO 25%</td>
<td>232-489-3</td>
<td></td>
<td>EU DSD/DPD: Carc. Cat. 2; R45 Mutab. Cat. 2; R46 Xn; R65</td>
<td>NDA</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>1% TO 5%</td>
<td>202-436-9</td>
<td>Ingestion/Oral-Rat LD50 ≥5 g/kg</td>
<td>UN GHS: Acute Tox. 4 (Inhalation); Aquatic Chronic 2; Flam. Liq. 3; Eye Irrit. 2A; Skin Irrit. 2; STOT RE 2; STOT SE 2</td>
<td>NDA</td>
</tr>
<tr>
<td>Bentonite</td>
<td>1302-78-9</td>
<td>1% TO 5%</td>
<td>215-108-5</td>
<td></td>
<td>WHMIS: Other Toxic Effects - D2A; UN GHS: STOT RE 2</td>
<td>NDA</td>
</tr>
<tr>
<td>Benzenem, 1,3,5-trimethyl</td>
<td>108-67-8</td>
<td>1% TO 5%</td>
<td>UN2325, 203-604-4</td>
<td></td>
<td>EU DSD/DPD: R10 X; R37 N; R51 R53</td>
<td>NDA</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>1% TO 5%</td>
<td>232-674-9</td>
<td>Ingestion/Oral-Rat LD50 ≥5 g/kg Ingestion/Oral-Rat LC50 ≥5800 mg/m³ 4 Hour(s)</td>
<td>WHMIS: Other Toxic Effects - D2B; UN GHS: Eye Irrit. 2A; Skin Irrit. 2</td>
<td>NDA</td>
</tr>
</tbody>
</table>

#### Non-Hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>% (wt)</th>
<th>UN;EINECS</th>
<th>LD50/LC50</th>
<th>EU R &amp; S Phrases</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>25% TO 30%</td>
<td>231-791-2</td>
<td></td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.
See Section 11 for Toxicological Information.

**Section 4 - First Aid Measures**

**Inhalation**
- Move victim to fresh air. Call a physician or poison control center immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

**Skin**
- Immediately flush skin with soap and plenty of water. Call a physician if symptoms occur. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

**Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**
- If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Notes to Physician**
- Aspiration of liquid into the lungs during swallowing or vomiting can cause lung inflammation, serious lung damage and even death from chemical pneumonitis.

**Section 5 - Fire Fighting Measures**

**Extinguishing Media**
- **LARGE FIRE:** Water spray, fog or regular foam.
  - **SMALL FIRES:** Dry chemical, CO2, water spray or regular foam.
- **Unsuitable Extinguishing Media**
  - Do not use direct stream of water.

**Firefighting Procedures**
- Fight advanced or massive fires from safe distance or protected location. Avoid water in a straight hose stream as the stream will cause splatter and spread fire. If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and are ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.

**Unusual Fire and Explosion Hazards**
- Combustible liquid. Containers may explode when heated. May release irritating or toxic gases, fumes, or vapors.

**Hazardous Combustion Products**
- Carbon monoxide, carbon dioxide, hydrocarbons.

**Protection of Firefighters**
- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**Flash Point**
- 105°F(41°C) CC (Closed Cup)

**Explosion Limits**
- **Upper**
  - 6 %
- **Lower**
  - .9 %

**Autoignition Temperature**
- 450°F(232°C)

**Section 6 - Accidental Release Measures**

**Personal Precautions**
- If you have not donned special protective clothing approved for this material, do not perform containment activities. Stay upwind to prevent exposure to vapors. Ventilate the area before entry.

**Emergency Procedures**
- **ELIMINATE** all ignition sources (no smoking, flares, sparks or flames in immediate area) Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up.

**Environmental Precautions**
- Prevent entry into waterways, sewers, basements or confined areas.

**Containment/Clean-up Measures**
- Contain and recover liquid when possible. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow entering waterways. Do not use water to flush spill area. Use appropriate Personal Protective Equipment (PPE).
Prohibited Materials
- Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

Handling
- KEEP OUT OF THE REACH OF CHILDREN! Keep away from heat and ignition sources. Keep away from fire - No Smoking. Do not use in areas without adequate ventilation. Protect building inlet ventilation from product fumes.

Storage
- Store in a well-ventilated place. Keep container tightly closed. No open flames, no sparks and no smoking.

Special Packaging Materials
- No data available

Incompatible Materials or Ignition Sources
- Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms

Respiratory
- In case of insufficient ventilation, wear suitable respiratory equipment. If listed exposure limits are expected to be exceeded, use approved respiratory protection suitable for the hazard.

Eye/Face
- Wear ANSI approved safety glasses with side shields or safety goggles.

Hands
- Wear chemical protective gloves made of Nitrile or Neoprene.

Skin/Body
- Wear clothing that covers the skin to prevent skin exposure.

General Industrial Hygiene Considerations
- Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid breathing vapors.

Engineering Measures/Controls
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>Canada Ontario</th>
<th>OSHA</th>
<th>United States - California</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose (9004-34-6)</td>
<td>TWAs 10 mg/m3 TWA</td>
<td>10 mg/m3 TWAEV (paper fibre, total dust)</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
<td>10 mg/m3 PEL (total dust); 5 mg/m3 PEL (respirable fraction)</td>
</tr>
<tr>
<td>Mineral Spirits (8052-41-3)</td>
<td>TWAs 100 ppm TWA</td>
<td>525 mg/m3 TWAEV</td>
<td>500 ppm TWA; 2900 mg/m3 TWA</td>
<td>100 ppm PEL; 525 mg/m3 PEL</td>
</tr>
<tr>
<td>Asphalt (8052-42-4)</td>
<td>TWAs 0.5 mg/m3 TWA (as benzene soluble aerosol, fume, inhalable fraction)</td>
<td>0.5 mg/m3 TWAEV (fume, inhalable, as benzene-soluble aerosol)</td>
<td>Not established</td>
<td>5 mg/m3 PEL (fume)</td>
</tr>
</tbody>
</table>

Exposure Control Notations
ACGIH
- Asphalt (8052-42-4): Carcinogens: A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)

Key to abbreviations

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
Section 9 - Physical and Chemical Properties

Physical Form - Liquid
Appearance/Description - Thick black semi-liquid.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Black</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild Hydrocarbon.</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>315 to 550 °F (157.2222 to 287.7778 °C)</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>= 2 mmHg (torr) @ 68 °F (20 °C)</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>NDA</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>= 4.9 Air=1</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density:</td>
<td>= 0.98 Water=1</td>
</tr>
<tr>
<td>Density:</td>
<td>= 8.1781 lbs/gal</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>NDA</td>
</tr>
<tr>
<td>Solvent Solubility:</td>
<td>NDA</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>= 270 Centipoise (cPs, cP) or mPas @ 140 °F (60 °C)</td>
</tr>
<tr>
<td>Flash Point Test Type:</td>
<td>CC (Closed Cup)</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Stability - Stable under normal temperatures and pressures.
Hazardous Polymerization - Hazardous polymerization not indicated.
Conditions to Avoid - Avoid contact with strong oxidizing agents and flame.
Incompatible Materials - Strong oxidizers and acids.
Hazardous Decomposition Products - Carbon monoxide, carbon dioxide and hydrocarbons.

Section 11 - Toxicological Information

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Concentration</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>45% TO 50%</td>
<td>8052-42-4</td>
<td>Acute Toxicity: ; orl-rat LD50:&gt;5000 mg/kg; ihl-rat LC50:&gt;94.4 mg/m3 Tumorigen/Carcinogen: ; skn-mus TD :69 gm/kg/43W-I</td>
</tr>
<tr>
<td>Bentonite</td>
<td>1% TO 5%</td>
<td>1302-78-9</td>
<td>Acute Toxicity: ; orl-mus TDLo:14 gm/kg/7D-I; orl-rat TDLo:700 mg/kg/7D-I Tumorigen/Carcinogen: ; orl-mus TDLo:12000 gm/kg/28W-C</td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl</td>
<td>1% TO 5%</td>
<td>108-67-8</td>
<td>Acute Toxicity: ; orl-rat LD50:5000 mg/kg; ihl-hmn TCLo:10 ppm Irritation: ; skn-rbt 20 mg/24H MOD</td>
</tr>
<tr>
<td>Cellulose</td>
<td>1% TO 5%</td>
<td>9004-34-6</td>
<td>Acute Toxicity: ; orl-rat LD50:&gt;5 gm/kg; ihl-rat LCS50:&gt;5800 mg/m3/4H</td>
</tr>
</tbody>
</table>

Other Component Information - IARC has concluded that the following chemicals in this product are carcinogenic to humans (Group 1): silica, quartz. ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens: silica, quartz. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

Other Information - This product contains petroleum asphalt. Petroleum asphalt is not listed as a carcinogen by OSHA or NTP. The National Institute of Occupational Safety and Health (NIOSH), has concluded that at higher temperatures roofing asphalt fumes are a potential occupational carcinogen. If this product is heated or comes in contact with heated material, avoid breathing fumes. This product may contain small amounts of polycyclic aromatic hydrocarbons (PAH's) which are recognized carcinogens in humans and experimental animals. Mouse skin painting studies of roofing asphalt vapor concentrate have shown evidence of tumor formation associated with localized skin irritation in recent studies. Inhalation studies of high airborne concentrations of asphalt/bitumen fumes in rats and mice produced bronchitis, pneumonitis, and lung changes such as fibrosis and cell damage.
Section 12 - Ecological Information

Ecological Fate - No data available
Persistence/Degradability - No data available
Bioaccumulation Potential - No data available
Mobility in Soil - No data available

Section 13 - Disposal Considerations

Product - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT - United States - Department of Transportation
Shipping Name: Not restricted if shipped in containers<450L (119 gallons). Restricted if shipped in containers >450L (119 gallons).

TDG - Canada - Transportation of Dangerous Goods - Not Restricted under General Exemption for small container packaging. TDG - Canada Transportation of Dangerous Goods: Tars, Liquids; UN1999; Hazard Class: 3; Packing Group: III

IMO/IMDG –International Maritime Transport
Shipping Name: Tars liquid
ID Number:UN1999 Hazard Class:3 Labeling Class:3 Packing Group: III
IMO/IMDG Transportation Other Information• IMDG Code 2.3.2.5 - exempted from marking, labeling & testing of packages.

IATA - International Air Transport Association
Shipping Name: Tars liquid
ID Number:UN1999 Hazard Class:3 Labeling Class:3 Packing Group: III

Section 15 - Regulatory Information

SARA Hazard Classifications - Acute, Chronic
Risk & Safety Phrases - California PROP 65: Asphalt and Asphalt Fumes may contain detectable amounts of chemicals known to the State of California to cause cancer or reproductive harm.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>NDA</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>8052-41-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Bentonite</td>
<td>1302-78-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Benzene, 1,3,5-trimethyl</td>
<td>108-67-8</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Component</td>
<td>CAS</td>
<td>MA</td>
<td>NJ</td>
<td>PA</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>8052-41-3</td>
<td>Yes</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>Yes</td>
</tr>
<tr>
<td>Bentonite</td>
<td>1302-78-9</td>
<td>Yes</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>8052-41-3</td>
<td>Yes</td>
</tr>
<tr>
<td>1,3,5-trimethylbenzene</td>
<td>108-67-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Canada

#### Labor

**Canada - WHMIS - Classifications of Substances**

- **Cellulose** 9004-34-6 1% TO 5% Uncontrolled product according to WHMIS classification criteria (including microcrystalline and paper fibers)
- **Asphalt** 8052-42-4 45% TO 50% Not Listed
- **Bentonite** 1302-78-9 1% TO 5% D2A
- **Mineral Spirits** 8052-41-3 15% TO 25% B3, D2B
- **Benzene, 1,3,5-trimethyl** 108-67-8 1% TO 5% B3

### United States

#### Environment

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

- **Cellulose** 9004-34-6 1% TO 5% Not Listed
- **Asphalt** 8052-42-4 45% TO 50% Not Listed
- **Bentonite** 1302-78-9 1% TO 5% Not Listed
- **Mineral Spirits** 8052-41-3 15% TO 25% Not Listed
- **Benzene, 1,3,5-trimethyl** 108-67-8 1% TO 5% Not Listed

### United States - California

#### Environment

**U.S. - California - Proposition 65 - Carcinogens List**

- **Cellulose** 9004-34-6 1% TO 5% Not Listed
- **Asphalt** 8052-42-4 45% TO 50% Not Listed
- **Bentonite** 1302-78-9 1% TO 5% Not Listed
- **Mineral Spirits** 8052-41-3 15% TO 25% Not Listed
- **Benzene, 1,3,5-trimethyl** 108-67-8 1% TO 5% Not Listed
Section 16 - Other Information

Last Revision Date - 4/28/2015
Prepared By - Gardner-Gibson
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