

# Material Safety Data Sheet



## Section 1 - Product and Company Identification

|                            |   |
|----------------------------|---|
| <b>Material Name</b>       | - <b>6456-9-30 Black Jack Black Maxx 600 Dura-Gel Blacktop Sealer</b>   |
| <b>Chemical Category</b>   | - Mixture   |
| <b>Product Code</b>        | - 6456-9-30   |
| <b>Product Description</b> | - Asphalt emulsion driveway sealer.   |
| <b>Product Use</b>         | - Filler and sealant for asphalt pavements.   |
| <b>Synonyms</b>            | - Low VOC Water Based Asphalt Coating   |
| <b>Manufacturer</b>        | - Gardner-Gibson<br>4161 E. 7th Avenue<br>Tampa, FL 33605<br>United States<br>www.gardner-gibson.com<br>Please use "Contact Us" form on the website |
| <b>Telephone</b>           |   |
| <b>Technical</b>           | - 813-248-2101  |
| <b><u>Emergency</u></b>    | - 800-424-9300  |
| <b><u>Emergency</u></b>    | - 703-527-3887  |
| <b>Preparation Date</b>    | - 1/23/2013   |
| <b>Last Revision Date</b>  | - 1/23/2013   |

## Section 2 - Hazards Identification

### EMERGENCY OVERVIEW

#### WARNING

May be harmful if swallowed. May cause respiratory irritation. Causes eye irritation. Causes mild skin irritation.

**Prevention** Do not breathe dust, fume, gas, mist, vapours and/or spray. Do not handle until all safety precautions have been read and understood.

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



CAUTION - Vapors may cause headache, nausea, and respiratory tract irritation.

|                      |   |
|----------------------|---|
| <b>Physical Form</b> | - Liquid  |
| <b>Color</b>         | - Black   |
| <b>Odor</b>          | - Mild Hydrocarbon.   |
| <b>Flash Point</b>   | - 460 F(237.7778 C)   |
| <b>OSHA</b>          | - Carcinogen – Asphalt Fumes- Potential                                     |
| <b>WHMIS</b>         | - Class D - Poisonous and Infectious Materials - Division 2 - Subdivision A |
|                      | -   |

- GHS**
- Specific Target Organ Toxicity Repeated Exposure - Category 2, Skin Corrosion/Irritation - Category 2, Serious Eye Damage, Eye Irritation - Category 2, Carcinogenicity - Category 1A
- Route Of Entry**
- Inhalation, Skin, Eye



**Potential Health Effects**

**Inhalation**

- Acute (Immediate)** - May cause irritation.
- Chronic (Delayed)** - No data available

**Skin**

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

**Eye**

- Acute (Immediate)** - May cause burning and redness or swelling of the eyes. May cause irritation.
- Chronic (Delayed)** - Repeated and prolonged exposure may cause irritation.

**Ingestion**

- Acute (Immediate)** - May be harmful or fatal if swallowed.
- Chronic (Delayed)** - No data available

- Carcinogenic Effects** - See Section 11 - Toxicological Information.

**Carcinogenic Effects**

|         | CAS        | IARC                         | NTP                    |
|---------|------------|------------------------------|------------------------|
| Asphalt | 8052-42-4  | Group 2B-Possible Carcinogen | Under Consideration    |
| Quartz  | 14808-60-7 | Group 1-Carcinogenic         | Known Human Carcinogen |

**Other Information**

- 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. During spraying or sanding the product, wear suitable respiratory equipment to protect against inhalation of mist and dust.

See Section 12 for Ecological Information.

**Section 3 - Composition/Information on Ingredients**

**Hazardous Components**

| Chemical Name | CAS        | %(wt)         | UN;EINECS         | LD50/LC50  | EU R & S Phrases | Other |
|---------------|------------|---------------|-------------------|--|------------------|-------|
| Asphalt       | 8052-42-4  | 10% TO<br>20% | NA1999, 232-490-9 | Ingestion/Oral-Rat LD50 · >5000 mg/kg<br>Inhalation-Rat LC50 · >94.4 mg/m <sup>3</sup> | NDA              | NDA   |
| Quartz        | 14808-60-7 | 10% TO<br>20% | 238-878-4         |  | NDA              | NDA   |
| Kaolin        | 1332-58-   | 5% TO         |                   |  | NDA              | NDA   |

**Hazardous Components**

| Chemical Name | CAS       | %(wt)      | UN;EINECS | LD50/LC50  | EU R & S Phrases | Other |
|---------------|-----------|------------|-----------|--|------------------|-------|
|               | 7         | 12%        |           |  |                  |       |
| Bentonite     | 1302-78-9 | 1% TO 5%   | 215-108-5 |  | NDA              | NDA   |
| Carbon Black  | 1333-86-4 | 0.5% TO 1% | 215-609-9 | Ingestion/Oral-Rat LD50 · >15400 mg/kg<br>Skin-Rabbit LD50 · >3 g/kg | NDA              | NDA   |

**Non-Hazardous Components**

| Chemical Name | CAS       | %(wt)      | UN;EINECS | LD50/LC50                           | EU R & S Phrases | Other |
|---------------|-----------|------------|-----------|-------------------------------------|------------------|-------|
| Water         | 7732-18-5 | 55% TO 70% | 231-791-2 | Ingestion/Oral-Rat LD50 · >90 mL/kg | NDA              | NDA   |

**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** - Remove to fresh air. Call a physician or poison control center if you fell unwell. If not breathing, give artificial respiration.
- Skin** - Wash the contaminated area of body with soap and fresh water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye** - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.
- Ingestion** - Call a physician or poison control center immediately. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting.

See Section 2 for Potential Health Effects.

**Section 5 - Fire Fighting Measures**

- Extinguishing Media** - SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable Extinguishing Media** - No data available
- Firefighting Procedures** - Keep unauthorized personnel away. Stay upwind. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
- Unusual Fire and Explosion Hazards** - Some of these materials may burn, but do not readily ignite. May release irritating or toxic gases, fumes, or vapors.
- Hazardous Combustion Products** - Carbon monoxide, carbon dioxide, hydrocarbons.
- Protection of Firefighters** - Wear positive pressure self-contained breathing apparatus (SCBA).
- Flash Point** - 460°F(238°C)

**Section 6 - Accidental Release Measures**

- Personal Precautions** - Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. If you have not donned special protective clothing approved for this material, do not participate in the cleanup. Ventilate enclosed areas.
- Emergency Procedures** - Stop leak if you can do it without risk 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
- Avoid run off to waterways and sewers. Do NOT wash away into sewer.
  - Use appropriate Personal Protective Equipment (PPE) Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.
  - Avoid contact with strong oxidizing agents and acids.
- Environmental Precautions**
- Containment/Clean-up Measures**
- Prohibited Materials**

## Section 7 - Handling and Storage

- Handling**
- Keep containers tightly closed when not in use. Use only with adequate ventilation.
- Storage**
- Keep only in the original container/package in a cool well-ventilated place. Keep away from fire. Keep container closed when not in use.
- 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**
- When used with adequate ventilation, a respirator is not normally required. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. 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.
- 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. Do not eat, drink or smoke during work. Wash hands before eating.
- Engineering Measures/Controls**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

### Exposure Limits/Guidelines

|                          | Result | ACGIH   | NIOSH   | OSHA   | United States - California  |
|--------------------------|--------|---|---|--|---|
| Carbon Black (1333-86-4) | TWAs   | 3.5 mg/m <sup>3</sup> TWA   | 3.5 mg/m <sup>3</sup> TWA; 0.1 mg/m <sup>3</sup> TWA (carbon black in presence of polycyclic aromatic hydrocarbons, as PAH) | 3.5 mg/m <sup>3</sup> TWA  | 3.5 mg/m <sup>3</sup> PEL   |
| Kaolin (1332-58-7)       | TWAs   | 2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction) | 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)  | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction) | 2 mg/m <sup>3</sup> PEL (respirable dust, containing no asbestos fibers, < 1% crystalline silica) |
| Asphalt (8052-42-4)      | TWAs   | 0.5 mg/m <sup>3</sup> TWA (as benzene soluble aerosol, fume, inhalable fraction)                                    | Not established   | Not established  | 5 mg/m <sup>3</sup> PEL (fume)  |
| Quartz (14808-60-7)      | TWAs   | 0.025 mg/m <sup>3</sup> TWA (respirable fraction)   | 0.05 mg/m <sup>3</sup> TWA (respirable dust)  | Not established  | 0.3 mg/m <sup>3</sup> PEL (total dust); 0.1 mg/m <sup>3</sup> PEL (respirable dust)               |

Exposure Control Notations

ACGIH

- Kaolin (1332-58-7):Carcinogens:A4 - Not Classifiable as a Human Carcinogen
- Carbon Black (1333-86-4):Carcinogens:A4 - Not Classifiable as a Human Carcinogen
- Asphalt (8052-42-4):Carcinogens:A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)
- Quartz (14808-60-7):Carcinogens:A2 - Suspected Human Carcinogen

**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.

|   |                  |                                 |                   |
|---|------------------|---------------------------------|-------------------|
| <b>Color:</b> Black                         |                  | <b>Odor:</b> Mild Hydrocarbon.  |                   |
| <b>Taste:</b> NDA                           |                  | <b>Odor Threshold:</b> NDA      |                   |
| <b>Boiling Point:</b>                       | 212 F(100 C)     | <b>Vapor Pressure:</b>          | = 17 @ 77 F(25 C) |
| <b>Melting Point:</b>                       | 32 F(0 C)        | <b>Vapor Density:</b>           | = 1 Air=1         |
| <b>Specific Gravity/Relative Density:</b>   | = 1.2 Water=1    | <b>Evaporation Rate:</b>        | = 1 Water = 1     |
| <b>Density:</b>                             | = 10.014 lbs/gal | <b>VOC (Wt.):</b>               | NDA               |
| <b>Bulk Density:</b>                        | NDA              | <b>VOC (Vol.):</b>              | = 1 g/L           |
| <b>pH:</b>                                  | 9 to 10          | <b>Volatiles (Wt.):</b>         | NDA               |
| <b>Water Solubility:</b>                    | NDA              | <b>Volatiles (Vol.):</b>        | NDA               |
| <b>Solvent Solubility:</b>                  | NDA              | <b>Flash Point:</b>             | 460 F(237.7778 C) |
| <b>Viscosity:</b>                           | NDA              | <b>Flash Point Test Type:</b>   | NDA               |
| <b>Half-Life:</b>                           | NDA              |                                 |                   |
| <b>Octanol/Water Partition coefficient:</b> | NDA              |                                 |                   |
| <b>Coefficient of Water:</b>                | NDA              | <b>Autoignition:</b>            | NDA               |
| <b>Bioaccumulation Factor:</b>              | NDA              | <b>Bioconcentration Factor:</b> | NDA               |
| <b>Biochemical Oxygen Demand BOD/BOD5:</b>  | NDA              | <b>Chemical Oxygen Demand:</b>  | NDA               |
| <b>Persistence:</b>                         | NDA              | <b>Degradation:</b>             | NDA               |

**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 acids.
- Incompatible Materials** - Strong oxidizers and acids.
- Hazardous Decomposition Products** - Carbon monoxide, carbon dioxide and hydrocarbons.
- Other Information** - No data.

**Section 11 - Toxicological Information**

| Component Name | Concentration | CAS       | Data  |
|----------------|---------------|-----------|---|
| Asphalt        | 10% TO 20%    | 8052-42-4 | Acute Toxicity: ; orl-rat LD50:>5000 mg/kg; ihl-rat LC50:>94.4 mg/m3; ihl-hmn TDLo:10 mg/m3/5.5Y-I<br>Tumorigen/Carcinogen: ; skn-mus TDLo:905 gm/kg/2Y-I |

**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. Airborne exposure is not expected with this product. The materials are encapsulated and would only be release if the dry material was sanded. Exposure could increase if the product is sprayed.

**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

**TDG - Canada - Transport of Dangerous Goods**

Shipping Name: Not Restricted

**IMO/IMDG –International Maritime Transport**

Shipping Name: Not Restricted

**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.

**State Right To Know**

| Component    | CAS        | MA  | MN  | NJ  |
|--------------|------------|-----|-----|-----|
| Water        | 7732-18-5  | No  | No  | No  |
| Asphalt      | 8052-42-4  | Yes | Yes | Yes |
| Quartz       | 14808-60-7 | Yes | Yes | Yes |
| Kaolin       | 1332-58-7  | Yes | Yes | Yes |
| Bentonite    | 1302-78-9  | No  | No  | No  |
| Carbon Black | 1333-86-4  | Yes | Yes | Yes |

**Inventory**

| Component    | CAS        | EU EINECS | TSCA |
|--------------|------------|-----------|------|
| Water        | 7732-18-5  | Yes       | Yes  |
| Asphalt      | 8052-42-4  | Yes       | Yes  |
| Quartz       | 14808-60-7 | Yes       | Yes  |
| Kaolin       | 1332-58-7  | Yes       | Yes  |
| Bentonite    | 1302-78-9  | Yes       | Yes  |
| Carbon Black | 1333-86-4  | Yes       | Yes  |

#### Canada - WHMIS - Classifications of Substances

|             |            |            |   |
|-------------|------------|------------|---|
| ▪ Kaolin    | 1332-58-7  | 5% TO 12%  | D2A   |
| ▪ Asphalt   | 8052-42-4  | 10% TO 20% | Not Listed  |
| ▪ Quartz    | 14808-60-7 | 10% TO 20% | D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Silica, crystalline, encapsulated on Health Canada's WHMIS website.) |
| ▪ Bentonite | 1302-78-9  | 1% TO 5%   | D2A   |
| ▪ Water     | 7732-18-5  | 55% TO 70% | Uncontrolled product according to WHMIS classification criteria   |

#### Canada - WHMIS - Ingredient Disclosure List

|             |            |            |            |
|-------------|------------|------------|------------|
| ▪ Kaolin    | 1332-58-7  | 5% TO 12%  | Not Listed |
| ▪ Asphalt   | 8052-42-4  | 10% TO 20% | Not Listed |
| ▪ Quartz    | 14808-60-7 | 10% TO 20% | 1 %        |
| ▪ Bentonite | 1302-78-9  | 1% TO 5%   | Not Listed |
| ▪ Water     | 7732-18-5  | 55% TO 70% | Not Listed |

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

|             |            |            |  |
|-------------|------------|------------|--|
| ▪ Kaolin    | 1332-58-7  | 5% TO 12%  | Not Listed   |
| ▪ Asphalt   | 8052-42-4  | 10% TO 20% | Not Listed   |
| ▪ Quartz    | 14808-60-7 | 10% TO 20% | carcinogen, initial date 10/1/88 (airborne particles of respirable size) |
| ▪ Bentonite | 1302-78-9  | 1% TO 5%   | Not Listed   |
| ▪ Water     | 7732-18-5  | 55% TO 70% | Not Listed   |

## Section 16 - Other Information

|  |  |
|--|--|
| <b>Last Revision Date</b>                | - 01/23/2013   |
| <b>Prepared By</b>                       | - Gardner-Gibson Inc.  |
| <b>Preparation Date</b>                  | - 01/23/2013   |
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