1. Product and Company Identification

Material name: Polyflex 511 Tack Coat

Version #: 00
Revision date: 08-28-2014
CAS #: Mixture
Product use: Pavement Sealing and Preservation
Manufacturer: Wasser Corporation
Address: 4118 B Place NW Suite B
Auburn, WA 98001 USA

2. Hazards Identification

Emergency overview: May cause central nervous system depression. May cause irritation to the respiratory system.

Potential health effects:
- Routes of exposure: Inhalation.
- Eyes: Contact with eyes may cause irritation. Molten material will produce thermal burns.
- Skin: Irritating to skin.
- Inhalation: Prolonged inhalation may be harmful. May cause sensitization of susceptible persons by inhalation of aerosol or dust.
- Ingestion: Expected to be a low ingestion hazard. Irritating to mouth, throat, and stomach.

Signs and symptoms: Irritation of eyes and mucous membranes. Dermatitis. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects: Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT</td>
<td>8052-42-4</td>
<td>40 - 95</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC</td>
<td>64742-52-5</td>
<td>0 - 15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINERAL FILLER</td>
<td>Mixture</td>
<td>0 - 45</td>
</tr>
<tr>
<td>VULCANIZED RUBBER COMPOUND</td>
<td>Mixture</td>
<td>0 - 20</td>
</tr>
<tr>
<td>POLYESTER FIBERS</td>
<td>25038-59-9</td>
<td>0 - 10</td>
</tr>
<tr>
<td>STYRENE/ISOPRENE COPOLYMER</td>
<td>25038-32-8</td>
<td>0 - 15</td>
</tr>
<tr>
<td>ETHYLENE/BUTADIENE COPOLYMER</td>
<td>66070-58-4</td>
<td>0 - 10</td>
</tr>
<tr>
<td>SBS BLOCK COPOLYMER</td>
<td>Proprietary</td>
<td>0 - 10</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Skin contact**
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly wash (or discard) clothing and shoes before reuse.

**Inhalation**
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Ingestion**
Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Do not use mouth-to-mouth method if victim ingested the substance.

**Notes to physician**
In case of ingestion, the decision of whether or not to induce vomiting should be made by the attending physician. Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

**General advice**
Discard any shoes or clothing items that cannot be decontaminated.

5. Fire Fighting Measures

**Flammable properties**
Container may explode in heat of fire. Not flammable by OSHA criteria.

**Extinguishing media**

- **Suitable extinguishing media**
  Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Addition of water or foam to the fire may cause frothing.

- **Unsuitable extinguishing media**
  Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters**

- **Specific hazards arising from the chemical**
  Development of hazardous combustion gases or vapours possible in the event of a fire. The following may develop: Acrolein.

- **Protective equipment and precautions for firefighters**
  Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

**Fire fighting equipment/instructions**
In case of fire and/or explosion do not breathe fumes. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. In the event of fire, cool tanks with water spray. By fire, toxic gases may be formed (COx, NOx). Keep run-off water out of sewers and water sources. Dike for water control.

**Specific methods**
In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

**Hazardous combustion products**
Oxides of carbon and nitrogen Sulfur dioxide.

6. Accidental Release Measures

**Personal precautions**
Keep unnecessary personnel away. Ventilate closed spaces before entering them. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up.

**Environmental precautions**
Runoff or release to sewer, waterway or ground is forbidden.

**Methods for containment**
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

**Methods for cleaning up**
Dike far ahead of spill for later disposal. Collect and dispose of spillage as indicated in section 13 of the MSDS.

Never return spills in original containers for re-use.

7. Handling and Storage

**Handling**
The product is non-combustible. If heated, irritating vapors may be formed. Wash hands after handling. Observe good industrial hygiene practices. Do not use in areas without adequate ventilation.

**Storage**
Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep the container tightly closed and dry. Store in a closed container away from incompatible materials.
8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT (8052-42-4)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (64742-52-5)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (64742-52-5)</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

2000 mg/m³ 500 ppm

Engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection
Wear safety glasses; chemical goggles (if splashing is possible). Wear chemical goggles; face shield (if handling molten material).

Skin protection
Wear suitable protective clothing and eye/face protection. Use of an impervious apron is recommended.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations
When using do not smoke.

9. Physical & Chemical Properties

Appearance
Solid.
Physical state
Liquid.
Form
Solid.
Color
Black. Dark brown
Odor
Product is a black, semi-solid with a burnt tar odor.
Odor threshold
Not available.
pH
Not available.
Vapor pressure
Not available.
Vapor density
Not available.
Boiling point
> 800 °F (> 426.7 °C)
Melting point/Freezing point
220 °F estimated
Solubility (water)
Not available.
Specific gravity
1 - 1.9
Relative density
Not available.
Flash point
> 400 °F (> 204.4 °C)
Flammability limits in air, upper, % by volume
Not available.
Flammability limits in air, lower, % by volume
Not available.
Auto-ignition temperature
> 700 °F (> 371.1 °C)
Percent volatile
< 1 %
Other data
Density Not Available
Flammability class Combustible IIIB estimated
10. Chemical Stability & Reactivity Information

- **Chemical stability**: Material is stable under normal conditions.
- **Conditions to avoid**: Strong oxidizing agents.
- **Incompatible materials**: Incompatible with oxidizing agents.
- **Hazardous decomposition products**: Upon decomposition, product emits acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of nitrogen and sulfur, and water.
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.

11. Toxicological Information

- **Chronic effects**: Prolonged inhalation may be harmful. May cause eczema-like skin disorders (dermatitis).
- **Carcinogenicity**: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
- **Skin corrosion/irritation**: Defats the skin. Causes irritation.

12. Ecological Information

- **Ecotoxicity**: This product has no known eco-toxicological effects.
- **Environmental effects**: Ecological injuries are not known or expected under normal use. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
- **Persistence and degradability**: Not available.

13. Disposal Considerations

- **Waste codes**: Not applicable.
- **Disposal instructions**: Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

- **Further information**: If shipped above 212 deg F: "UN3257, Elevated Temperature Liquid, n.o.s., 9, PG III"

15. Regulatory Information

- **US federal regulations**: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
  - **Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)** Not regulated
  - **DEA Essential Chemical Code Number**: Not regulated
  - **Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**: Not regulated
  - **DEA Exempt Chemical Mixtures Code Number**: Not regulated
- **CERCLA (Superfund) reportable quantity**: None
- **Superfund Amendments and Reauthorization Act of 1986 (SARA)**
  - **Hazard categories**: Immediate Hazard - Yes
  - **Delayed Hazard - Yes**
  - **Fire Hazard - No**
  - **Pressure Hazard - No**
  - **Reactivity Hazard - No**
  - **Section 302 extremely hazardous substance**: No
  - **Section 311 hazardous chemical**: No
- **Inventory status**
  - **Country(s) or region**: Australia, Canada
  - **Inventory name**: Australian Inventory of Chemical Substances (AICS), Domestic Substances List (DSL)
  - **On inventory (yes/no)**: Yes, Yes
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

**State regulations**

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

**US - New Jersey RTK - Substances: Listed substance**
- ASPHALT (CAS 8052-42-4) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**
- ASPHALT (CAS 8052-42-4) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**
- ASPHALT (CAS 8052-42-4) Special hazard.

**16. Other Information**

**Further information**
- HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
- Health: 1*
- Flammability: 1
- Physical hazard: 0

**NFPA ratings**
- Health: 1
- Flammability: 1
- Instability: 0

**Disclaimer**
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Issue date**
- Not available.