Material Safety Data Sheet
Thermoplastic Polyolefin (TPO) Flashing Membrane

Section 1 - Chemical Product and Company Identification

Date of Preparation: 07/09/2010

MSDS No. B56303 PPC1CF1.5-GAF Gray

Chemical Formula: Thermoplastic Olefin

Other Designations: N/A

Manufacturer: Mortar Net USA, LTD. 326 Melton Road Burns Harbor, IN 46304 8006646638

United States Official Harmonized Tariff Schedule (HTS):3902.30.00.00(3902.30.99) (Number does not infer NAFTA clearance)

***** Emergency Overview *****

Molten material can cause severe burns to skin. Wear protective clothing when working with or near molten material. Do not allow material to enter streams or waterways per 40 CFR 122.26, "Significant Material" THIS PRODUCT IS NOT A HAZARDOUS MATERIAL AS DEFINED IN 29 CFR 1910.1200.

Section 2 - Composition / Information on Ingredients

Please note that the following listed ingredients pose little to no air contamination hazard because of encapsulation in polymer and are disclosed for reporting purposes only.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>% wt or % vol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt;1.0</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt;0.01</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>1317-65-3</td>
<td>15-20</td>
</tr>
<tr>
<td>Poly[[1,3,3-trimethylbutyl]amino-8-cyclohexyl-2,4-diy1][2,2,6,6-tetramethyl-4-piperidyl]limino] hexamethylene[2,2,6,6-tetramine</td>
<td>70624-18-9</td>
<td>&lt;0.35</td>
</tr>
</tbody>
</table>

Section 3 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Pellet form - Essentially Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Slight Odor</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.97-1.01</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Volatility</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Section 4 - Fire-Fighting Measures

Auto Ignition Temperature: >357°C (675°F)
Flammability Classification: 1
Extinguishing Media: Carbon Dioxide, Water Fog, Foam
Unusual Fire or Explosion Hazards: None
Fire-Fighting Instructions: Do not release pellet containing runoff from fire unless to methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.
Section 5 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Strong Oxidizing Agents
Conditions to Avoid: Same as above
Hazardous Decomposition Products: Thermal oxidative decomposition may yield carbon monoxide, carbon dioxide and low molecular weight hydrocarbons.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Low risk of entry in present form

Acute Effects
Inhalation: Low hazard for usual industrial or commercial handling. Not likely to dust. Fumes can cause irritation.
Eye: Same as above
Skin: Ingestion: Same as above
Carcinogenicity: Is not expected to occur. If swallowed, may physically irritate digestive system.
IARC, NTP, and OSHA do not list this product as a carcinogen.

AC: Carbon Black* IARC: Group 2B (Possible Human Carcinogen)
OSHA: No
NTP: No

AC: Titanium Dioxide* IARC: Group 2B (Possible Human Carcinogen)
OSHA: Not Classifiable
NTP: No

Total Dust Exposure Limits:

AC: Carbon Black* OSHA: 3.5 mg/m3 TWA
ACGH: 3.5 mg/m3 TWA

AC: Calcium Carbonate OSHA: 15 mg/m3 TWA
ACGH: 10mg/m3 TWA

AC: Titanium Dioxide* OSHA: 15 mg/m3 TWA
ACGH: 10mg/m3 TWA

*As Airborne Contaminant only

Emergency and First Aid Procedures

Inhalation: If breathing is difficult, remove to fresh air, call a physician.
Eye Contact: Flush eyes with plenty of water for at least 15 minutes, call a physician.
Skin Contact: The compound is not likely to be hazardous, but cleansing the skin after use is advisable.
Ingestion: No specific intervention is indicated as compound is not likely to be hazardous. However, if symptoms of gastrointestinal irritation occur, consult a physician.

After first aid, get appropriate In-plant, paramedic, or community medical support.
Section 7 - Spill, Leak, and Disposal Procedures

Spill/Leak Procedures: Shut off source, advise authorities of possible floating material. Substance is non-toxic.

Containment: Do not release into sewers or waterways. Plastic pellets are defined by USEPA under the Clean Water Act (40 CFR 122.26) as a "Significant Material" which may require a storm water permit.

Cleanup: Place waste in box or other container suitable for recycle or disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.


Protective Clothing / Equipment: Wear protective eyewear or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: Wear gloves when material is in molten state and cover other body areas if contact is possible.

Storage Requirements: Do not store near flame or heat.

Section 10 - Regulatory Information

SARA 313 Reporting Requirements:

<table>
<thead>
<tr>
<th>Substance</th>
<th>M I N I M U M  C O N C E N T R A T I O N</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4 Benzene, ethyl</td>
<td>&lt;0.00007%</td>
</tr>
<tr>
<td>1330-20-7 Benzene, dimethyl</td>
<td>&lt;0.00007%</td>
</tr>
</tbody>
</table>

The minimum concentration is 0.1% for both substances.
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Clean Air Act-Hazardous Air Pollutants (HAP): Act 111 Volatile Organic Compounds (VOC)
100-41-4  Benzene, ethyl- (<0.0007%)
1330-26-7  Benzene, dimethyl- (<0.0007%)

Clean Water Act Priority Pollutants List:
No Reportable Substance

RCRA Ground Water List:
No Reportable Substance

Toxics Substance Control Act (TSCA) Inventory:
1330-20-7  Benzene, dimethyl- (<0.0007%) - 12b Export Notification

State Regulations:
New Jersey Right to Know Substance List:  Carbon Black, Titanium Dioxide
Massachusetts Substance List:  Carbon Black, Calcium Carbonate, Titanium Dioxide
Pennsylvania Environmental Hazard List:  Carbon Black, Calcium Carbonate, Titanium Dioxide
California Proposition 65:  Carbon Black, 100-41-4 Benzene, ethyl- (<0.0007%)

International Regulations:
Materials contained in this product that are listed on the following international lists:
Canadian-DSL/NDSL:
All materials

EU-EINECS/ELINCS:
All materials

Australian Hazardous Substance Inventory System:
Carbon Black
Benzene, ethyl- (<0.0007%)
Benzene, dimethyl- (<0.0007%)

DOT Transportation Data (49 CFR 172.101)
Shipping Name: PPCICF1,5-GAF Gray
Prepared By: Technology Department
Revision Notes: Any questions call1734-22B-1260, ext. 4386
Disclaimer: The information contained herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation which WPP bears legal responsibility.