Section 1 - Product and Company Identification

Hazard Label CAUTION label

Company Information
Johns Manville
Roofing Systems
P.O. Box 5108
Denver, CO 80127 USA

Trade Names: Bestile Industrial Roof Cement

Use: These products may be used to adhere membranes to other modified bitumen membranes

Section 2 - Hazards Identification

Inhalation
Irritation of the upper respiratory tract, coughing, and congestion may occur in extreme exposures. Severe irritation of the mouth, nose, and throat, as well as signs of central nervous system depression (drowsiness, dizziness, headache), may occur upon inhalation of vapors or gases.

Skin
Drying of skin, dermatitis, and blistering may occur following prolonged exposures.

Ingestion
This product in not intended to be ingested under normal conditions of use. May be harmful if swallowed. May cause gastrointestinal irritation and disturbances. May cause effects similar to those for inhalation exposure. Aspiration into the lungs may cause lung inflammation and other lung injury.

Eyes
Irritation, redness, and burning in eyes may occur.

Primary Routes of Entry (Exposure)
Inhalation, skin, and eye contact.

Target Organs
Skin, eye, lungs, central nervous system (CNS), respiratory system, kidney, liver.

Medical Conditions Aggravated by Exposure
Pre-existing eye, skin, respiratory, central nervous system (CNS), liver and kidney diseases or conditions.

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-42-4</td>
<td>Asphalt</td>
<td>30-60</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>Stoddard solvent (mineral spirits)</td>
<td>10-30</td>
</tr>
<tr>
<td>1317-65-3</td>
<td>Calcium carbonate</td>
<td>15-40</td>
</tr>
<tr>
<td>12174-11-7</td>
<td>Clay, hydrous</td>
<td>7-13</td>
</tr>
<tr>
<td>68476-34-6</td>
<td>Fuels, diesel, no. 2</td>
<td>5-10</td>
</tr>
<tr>
<td>9004-34-6</td>
<td>Cellulose</td>
<td>3-10</td>
</tr>
<tr>
<td>95-63-6</td>
<td>Benzene, 1,2,4-trimethyl-</td>
<td>0.5-5.0</td>
</tr>
<tr>
<td>108-67-8</td>
<td>1,3,5-Trimethylbenzene</td>
<td>0.5-5.0</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Crystalline silica</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>0.1-1.0</td>
</tr>
</tbody>
</table>

General Product Description
Black liquid. Strong petroleum solvent odor.

Section 4 - First Aid Measures

First Aid: Inhalation
Remove to fresh air. If symptoms persist contact a physician.

First Aid: Skin
Remove contaminated clothing. Wash exposed areas with soap and water. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.
First Aid: Ingestion
Product is not intended to be ingested or eaten. If this product is ingested, do not induce vomiting and seek medical attention immediately.

First Aid: Eyes
Flush eyes with large amounts of water until irritation subsides. If irritation persists, seek medical attention.

First Aid: Notes to Physician
Treatment for inhalation, skin contact, or ingestion should be symptomatic. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias.

**Section 5 - Fire Fighting Measures**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>105ºF</td>
</tr>
<tr>
<td>Upper Flammable Limit (UFL)</td>
<td>6</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>No Data</td>
</tr>
<tr>
<td>Rate of Burning</td>
<td>Not determined</td>
</tr>
<tr>
<td>General Fire Hazards</td>
<td>CAUTION: Combustible liquid and vapor. Keep away from heat, sparks, and flame. Material is highly volatile and readily gives off vapors which are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Keep container closed. Use with adequate ventilation.</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Carbon dioxide (CO2), dry chemical.</td>
</tr>
<tr>
<td>Fire Fighting Equipment/Instrucions</td>
<td>Use NIOSH-approved self-contained breathing apparatus operating in the pressure demand mode and full fire fighting protective clothing. Avoid inhalation of vapors.</td>
</tr>
</tbody>
</table>

**Section 6 - Accidental Release Measures**

**Containment Procedures**
Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth, or other suitable absorbent. Prevent entry of material into sewers, other water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposures below the applicable exposure limit. Shovel absorbed material into containers in well-ventilated area.

**Clean-Up Procedures**
Place in closable container for disposal.

**Section 7 - Handling and Storage**

**Handling Procedures**
Use protective equipment as described in Section 8 of this safety data sheet when handling uncontained material. Handle in accordance with good industrial hygiene and safety practices.

**Storage Procedures**
Warehouse storage should be in accordance with package directions, if any. Product should be kept in a cool and dry area in original packaging. Do not freeze.

**Section 8 - Exposure Controls / Personal Protection**

**Exposure Guidelines**

**A: General Product Information**
Protective equipment should be provided as necessary to prevent inhalation of vapors, prolonged skin contact, and to keep exposure levels below the applicable exposure limits.

**B: Component Exposure Limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt (8052-42-4)</td>
<td>0.5 mg/m3 TWA (fume, inhalable fraction, as benzene soluble aerosol)</td>
</tr>
<tr>
<td>Stoddard solvent (mineral spirits) (8052-41-3)</td>
<td>OSHA: 500 ppm TWA; 2900 mg/m3 TWA 100 ppm TWA; 525 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>ACGIH: 100 ppm TWA</td>
</tr>
</tbody>
</table>
Material Name: Bestile Industrial Roof Cement  Material Number: 70000030  Safety Data Sheet  ID: 3117

Calcium carbonate (1317-65-3)  
OSHA:  15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)  
15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

Fuels, diesel, no. 2 (68476-34-6)  
ACGIH:  100 mg/m³ TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)  
Skin - potential significant contribution to overall exposure by the cutaneous route (listed under Diesel fuel)

Cellulose (9004-34-6)  
OSHA:  15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)  
15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

ACGIH:  10 mg/m³ TWA

Crystalline silica (14808-60-7)  
OSHA:  0.1 mg/m³ TWA (respirable dust)  
((250)/(%SiO₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO₂ + 2) mg/m³ TWA (respirable));  
((30)/(%SiO₂ + 2) mg/m³ TWA (total dust))

ACGIH:  0.025 mg/m³ TWA (respirable fraction)

Xylenes (o-, m-, p- isomers) (1330-20-7)  
OSHA:  100 ppm TWA; 435 mg/m³ TWA  
100 ppm TWA; 435 mg/m³ TWA

ACGIH:  100 ppm TWA  
150 ppm STEL

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face  
Safety glasses with side shields, chemical goggles, or a face shield is required.

Personal Protective Equipment: Skin  
Impervious gloves such as nitrile rubber should be used to help prevent excessive skin contact.

Personal Protective Equipment: Respiratory  
A NIOSH approved respirator must be used if vapor concentrations exceed exposure limits.

Ventilation  
Local exhaust or general dilution ventilation may be required to maintain exposures below the applicable exposure limits. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Personal Protective Equipment: General  
Protective equipment should be provided as necessary to prevent irritation of the throat, eyes, and skin, and to keep exposures below the applicable exposure limits identified in Section 8.

Section 9 - Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Black</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>2 mm Hg (20ºC/68ºF)</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>300-800º F</td>
</tr>
<tr>
<td>Solubility (H₂O):</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt;1</td>
</tr>
<tr>
<td>VOC:</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Solvent odor</td>
</tr>
<tr>
<td>pH:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.07</td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>&lt;25</td>
</tr>
</tbody>
</table>

Section 10 - Stability & Reactivity Information

Stability  
These products are not reactive.

Incompatibility  
Strong acids,alkalis, and oxidizing agents
Hazardous Decomposition
May form carbon dioxide, carbon monoxide, halogenated hydrocarbons, nitrogen oxides, various hydrocarbons.

Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Acute Toxicity
A: General Product Information
Vapors from this product may cause eye and upper respiratory irritation, dry throat and mouth, nausea, headache, dizziness, drowsiness, and coma in extreme cases. Prolonged exposures may lead to liver and kidney injury.

B: Component Analysis - LD50/LC50

Asphalt (8052-42-4)
Oral LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Cellulose (9004-34-6)
Inhalation LC50 Rat: >5800 mg/m3/4H; Oral LD50 Rat: >5 g/kg; Dermal LD50 Rabbit: >2 g/kg

1,3,5-Trimethylbenzene (108-67-8)
Inhalation LC50 Rat: 24 g/m3/4H; Oral LD50 Rat: 5000 mg/kg

Benzene, 1,2,4-trimethyl- (95-63-6)
Inhalation LC50 Rat: 18 g/m3/4H; Oral LD50 Rat: 3400 mg/kg; Dermal LD50 Rabbit: 3160 mg/kg

Crystalline silica (14808-60-7)
Oral LD50 Rat: 500 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)
Inhalation LC50 Rat: 5000 ppm/4H; Inhalation LC50 Rat: 47635 mg/L/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: 1700 mg/kg

Component Carcinogenicity

Asphalt (8052-42-4)
ACGIH: A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free)
IARC: Group 3 - Not Classifiable (IARC Supplement 7 [1987], Monograph 35 [1985] (steam-refined cracking-residue and air-refined))

Clay, hydrous (12174-11-7)
IARC: Group 2B - Possibly Carcinogenic to Humans (IARC Monograph 68 [1997] (long fibres >5 µm), Supplement 7 [1987])

Fuels, diesel, no. 2 (68476-34-6)
ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Diesel Fuel)

Crystalline silica (14808-60-7)
ACGIH: A2 - Suspected Human Carcinogen
NTP: Known Human Carcinogen (Select Carcinogen)
IARC: Group 1 - Known Human Carcinogen (IARC Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources))

Xylenes (o-, m-, p- isomers) (1330-20-7)
ACGIH: A4 - Not Classifiable as a Human Carcinogen
IARC: Group 3 - Not Classifiable (IARC Monograph 71 [1999], Monograph 47 [1989])
Chronic Toxicity

Asphalt (asphalt CAS # 8052-42-4 and oxidized asphalt 64742-93-4; bitumens): In 1985/87, IARC (International Agency for Research on Cancer) concluded the following: (a) Bitumens are not classifiable as to their carcinogenicity to humans (Group 3). (b) Extracts of steam- and air-refined bitumens are possibly carcinogenic to humans (Group 2B). IARC found that evidence for carcinogenicity from animal studies was: inadequate for undiluted air-refined bitumens; limited for steam-refined and cracking-residue bitumens; sufficient for extracts of steam-refined and air-refined bitumen. IARC found that human evidence for carcinogenicity of asphalt fumes was inadequate. Studies of roofers indicated an excess of cancers; however, IARC concluded that, since roofers may be exposed also to coal-tar pitches and other materials, "the excess cancer risk cannot be attributed specifically to bitumens." In 1994, a published review of 20 epidemiology studies of asphalt workers and roofers agreed with IARC, that current human evidence is inadequate for the carcinogenicity of asphalt fumes in humans. Trace amounts of polynuclear aromatic hydrocarbons (PAHs) may be present in some asphalts and can be released upon excessive heating, which results in thermal cracking of the asphalt compounds. Some of these PAHs have been identified as having the potential to induce carcinogenic and reproductive health effects.

Crystalline silica is considered a hazard by inhalation. The International Agency for Research on Cancer (IARC) has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Several studies have been conducted to determine the risk of cancer to workers exposed to dusts which contain crystalline silica. However, these studies did not consider other factors or elements that workers may be exposed to. Therefore, the causes of the excess deaths due to cancer could not be precisely determined. Further studies are being conducted to determine the risk of cancer when working with crystalline silica products. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease.

Exposure to xylene can cause central nervous system, kidney, and liver damage. Repeated, prolonged skin contact will defat the skin, causing drying, cracking, and dermatitis.

Section 12 - Ecological Information

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Fuels, diesel, no. 2 (68476-34-6)

96 Hr LC50 Pimephales promelas: 35 mg/L [flow-through]

1,3,5-Trimethylbenzene (108-67-8)

96 Hr LC50 Pimephales promelas: 3.48 mg/L
24 Hr EC50 water flea: 50 mg/L

Benzene, 1,2,4-trimethyl- (95-63-6)

96 Hr LC50 Pimephales promelas: 7.72 mg/L [flow-through]
48 Hr EC50 Daphnia magna: 6.14 mg/L

Xylenes (o-, m-, p- isomers) (1330-20-7)

96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.05 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.1 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 26.7 mg/L [static]
24 hr EC50 Photobacterium phosphoreum: 0.0084 mg/L
48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L

Section 13 - Disposal Considerations

US EPA Waste Number & Descriptions

A: General Product Information

This product is not expected to be a hazardous waste when it is disposed of according to the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Product characterization after use is recommended to ensure proper disposal under federal and/or state requirements.

B: Component Waste Numbers

Xylenes (o-, m-, p- isomers) (1330-20-7)

RCRA: waste number U239 (Ignitable waste, Toxic waste)
Disposal Instructions
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Section 14 - Transport Information

International Transport Regulations
DOT: Not hazardous for ground transport.
IATA & IMDG: Contact JM Product Stewardship for classification and label.

Section 15 - Regulatory Information

US Federal Regulations
A: General Product Information
SARA 311 Status. The following SARA 311 designations apply to this product: Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard.

B: Component Analysis
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Benzene, 1,2,4-trimethyl- (95-63-6)
SARA 313: 1.0 % de minimis concentration

Xylenes (o-, m-, p- isomers) (1330-20-7)
CERCLA: 100 lb final RQ; 45.4 kg final RQ

State Regulations
A: General Product Information
Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Stoddard solvent (mineral spirits)</td>
<td>8052-41-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Clay, hydrous</td>
<td>12174-11-7</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Fuels, diesel, no. 2</td>
<td>68476-34-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-</td>
<td>95-63-6</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains a chemical known to the state of California to cause cancer.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

WARNING: This product contains a substance known to the state of California to cause cancer:
Asphalt fumes may contain trace amounts of the following California Proposition 65 Listed Substances as known to the state of California to cause cancer or reproductive effects: Poly nuclear aromatic hydrocarbons (benz(a)anthracene, benzo(b)fluoranthene, benzo(j)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene).

A: TSCA Status
This product and its components are listed on the TSCA 8(b) inventory.

None of the components listed in this product are listed on the TSCA Export Notification 12(b) list.
B: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>DSL</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asphalt</td>
<td>8052-42-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Stoddard solvent (mineral spirits)</td>
<td>8052-41-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Clay, hydrous</td>
<td>12174-11-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Fuels, diesel, no. 2</td>
<td>68476-34-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Cellulose</td>
<td>9004-34-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-</td>
<td>95-63-6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

International Regulations

A: General Product Information

Clay, hydrous CAS 12174-11-7 is exempt from the TSCA inventory for one of the following two reasons:

1) It is a naturally occurring substance that is removed by simple extraction methods from Fuller's Earth (CAS# 8031-18-3), and such substances are exempt from listing on the TSCA inventory.

2) It is the hydrated form of Magnesium Aluminum Silicate (CAS# 1327-43-1), and hydrates are not subject listing on the TSCA inventory.

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stoddard solvent (mineral spirits)</td>
<td>8052-41-3</td>
<td>1 %</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Benzene, 1,2,4-trimethyl-</td>
<td>95-63-6</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>1 %</td>
</tr>
</tbody>
</table>

WHMIS Classification

Controlled Product Classification: B3 D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. This SDS contains all the information required by the Controlled Products Regulations.

Section 16 - Other Information

Other Information

Prepared for:
Johns Manville
Roofing Systems
P. O. Box 5108
Denver, CO USA 80217-5108

Prepared by:
Johns Manville Technical Center
P.O. Box 625005
Littleton, CO USA 80162-5005

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

<table>
<thead>
<tr>
<th>Date</th>
<th>MSDS #</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/01/00</td>
<td>3117-1.0000</td>
<td>New MSDS authoring system.</td>
</tr>
<tr>
<td>11/20/00</td>
<td>3117-1.0100</td>
<td>Sect. 1 Trade names: Changed MBR® Quick Set Cold Application Adhesive to MBR® Quickset Modified Adhesive. Minor updates per current supplier MSDS.</td>
</tr>
</tbody>
</table>

Page 7 of 8 Issue Date: 07/02/2010 Revision: 1.0112
Material Name: Bestile Industrial Roof Cement  
Material Number: 70000030  
Safety Data Sheet  
ID: 3117

03/09/01 3117-1.0101 Sect. 14; Update DOT Information
06/20/01 3177-1.0102 Sect. 1 Trade names: added JM BUR Adhesive; Sect. 2. Ingredients: added petroleum distillate CAS No. 64742-88-7.
10/28/02 3117-1.0103 Sect. 1 Trade Names: deleted 'MBR Membrane Adhesive'; added 'Concrete Primer Low VOC'; moved 'MBR® Insulation Adhesive' to new MSDS 3119. Sect. 2 Ingredients updated. Sect. 9 updated VOCs. Sect. 11, updated IARC for asphalt to Group 3.
08/14/03 3117-1.0104 Sect. 14, added "(Asphalt)" to shipping description.
05/10/04 3117-1.0105 Regulatory update. Minor edits.
04/20/05 3117-1.0106 Sect. 1 Roof Defender SBS Adhesive is obsolete. Sect. 2 composition update per raw material suppliers.
07/20/05 3117-1.0107 Section 9 Concrete Primer VOC information edited.
11/20/06 3117-1.0108 Section 14 Transportation classification update.
03/05/08 3117-1.0109 Removed MBR Quick Set Modified Adhesive and MBR Insulation Adhesive from trade names. Discontinued products. Updated transportation classifications in section 14. Addition of MBR Cold Application Adhesive (odorless) to trade names. SDS update to GHS format.
06/30/08 3117-1.0110 Minor edits to composition section and manufacturer information.
08/18/08 3117-1.0111 Moved BUR Adhesive to SDS 3162; Concrete Primer to SDS 3163; Concrete Primer, Low VOC to SDS 3164; MBR® Cold Application Adhesive to SDS 3165; MBR® Utility Cement to SDS 3166. Updated composition in Section 3.
07/02/10 3117-1.0112 Addition of SAP material number after material name.

End of Sheet 3117