SECTION 1: Product and Company Information

**Product Name:** Vectorply Non-Crimp Fabrics - Basalt  
**Synonyms:** Continuous filament basalt fiber bound together by polyester stitching  
**Manufacturer:** Vectorply Corporation  
3500 Lakewood Drive  
Phenix City, AL 36867 USA  
Telephone: (334) 291-7704

SECTION 2: Ingredients/Composition

<table>
<thead>
<tr>
<th>Component</th>
<th>Common Name</th>
<th>CAS No.</th>
<th>Wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basalt Roving</td>
<td>Continuous Filament Basalt*</td>
<td>N/A</td>
<td>&gt;99</td>
</tr>
<tr>
<td></td>
<td>Surface Binder/Sizing**</td>
<td>N/A</td>
<td>&lt;0.6</td>
</tr>
<tr>
<td>Stitching</td>
<td>Texturized Polyester Yarn</td>
<td>N/A</td>
<td>~2 of Total</td>
</tr>
</tbody>
</table>

* Chemical composition of continuous filament basalt: SiO₂ ≈ 50% Wt., CaO, Na₂O, FeO, Al₂O₃.  
**Chemical composition of surface binders/sizings: All are not hazardous and based on silane.

SECTION 3: Physical Data

**Continuous Filament Basalt**
- Melting Point: ~ 1050°C
- Specific Gravity (Water = 1): 2.67 (raw basalt)
- Boiling Point: N/A
- Vapor Pressure (mm Hg @ 20°C): N/A
- Vapor Density (Air = 1): N/A
- Odor: N/A
- Appearance: Dark-Olive Solid

**Stitching**
- Melting Point: 260°C
- Specific Gravity (Water = 1): N/A
- Boiling Point: N/A
- Vapor Pressure (mm Hg @ 20°C): N/A
- Vapor Density (Air = 1): N/A
- Odor: N/A
- Appearance: White/off-white Solid

SECTION 4: Fire & Explosion Hazard Data

**Continuous Filament Basalt**
- Flash Point: None
- Flammable Limits: None
- Extinguishing Media: N/A

**Stitching**
- Flash Point: N/A
- Flammable Limits: N/A
- Extinguishing Media: Dry chemical, water, carbon dioxide

SECTION 5: Health Hazard Data

**Primary Route(s) of Entry:** Inhalation, lungs, skin, eye

**Potential Health Effects:**

**Inhalation:** Dust and fibers from this product may cause mechanical irritation of the nose, throat and respiratory tract.

**Skin Contact:** Dusts and fibers from this product may cause temporary mechanical irritation to the skin.
Eye Contact: Dusts and fibers from this product may cause temporary mechanical irritation to the eyes.

Ingestion: Ingestion of this product is unlikely. However, ingestion of the product may produce gastrointestinal irritation and disturbances.

SECTION 6: Emergency & First Aid Procedures

Inhalation: Move person to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with mild soap and cold water. Do not wash with warm water because this will open up the pores of the skin, which will cause further penetration of the fibers. If irritation persists, seek medical attention.

Eye Contact: Immediately flush eyes with plenty of running water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: Ingestion of this material is unlikely. If it does occur, watch person for several days to make sure that intestinal blockage does not occur.

SECTION 7: Reactivity Data

Stability: This is a stable material

Conditions to Avoid: Humidity

Hazardous Decomposition Products: Sizings and stitching may decompose in a fire. See Section 4 of MSDS for information on hazardous combustion products.

Hazardous Polymerization: None will occur.

SECTION 8: Spill or Leak Procedures

Containment Procedures: This material will settle out of air. If concentrated on land, it can be scooped up for disposal as non-hazardous waste. This material will sink and disperse along the bottom or waterways and ponds. It cannot easily be removed after it is waterborne; however, the material is non-hazardous in water.

Waste Disposal Procedures: Dispose of as solid waste in accordance with local, state, and federal regulations.

SECTION 9: Exposure Controls and Personal Protection

Respiratory: A properly fitted NIOSH approved N 95 series disposable dust respirator should be used when high dust levels are encountered, the level of basalt fibers in the air exceeds the occupational exposure limits, or irritation occurs.

Ventilation: General dilution and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Skin Protection: Normal work clothing (long sleeved shirts and long pants) is recommended. Use gloves. Skin irritation is known to occur chiefly at pressure points such as around neck, wrists, waist, and between fingers.

Eye Protection: wear safety glasses, goggles, or face shields.
SECTION 10: Handling & Storage

Handling Procedures: Keep product in its packaging, as long as practicable to minimize potential dust generation. Keep work areas clean. Avoid unnecessary handling of scrap materials. Wear PPE as described in Section 9.

Storage Procedures: Storage rooms must be well ventilated. Do not store product in passage ways and staircases; also do always store it in original packing which should be intact.

Storage at room temperature and in dry conditions. Protect against humidity.

Important: While the information and data contained in this MSDS are presented in good faith and believed to be reliable, "Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data or products can be used without infringing patents of third parties."