



**GAF Materials Corporation**  
**Material Safety Data Sheet**  
**MSDS #2096**  
**MSDS Date: October 2008**

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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** VersaShield® Underlayment

**TRADE NAME:** N/A

**CHEMICAL NAME /  
SYNONYM:** N/A

**CHEMICAL FAMILY:** N/A

**MANUFACTURER:** GAF Materials Corporation

**ADDRESS:** 1361 Alps Road, Wayne, NJ 07470

**24-HOUR EMERGENCY  
PHONE (CHEMTREC):** 800 – 424 – 9300

**INFORMATION ONLY:** 800 – 766 – 3411

**PREPARED BY:** Sean Connolly

**APPROVED BY:** Phil Curry

**NFPA Hazard Rating**

Health
Flammable
Reactive
Special Hazards

1  
0  
0  
-

**HMIS Hazard Rating**

Health
Flammable
Reactive
Personal Protection

1  
0  
0  
A

**OSHA HAZARDOUS:** Yes ☐

No X

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

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**OCCUPATIONAL EXPOSURE LIMITS**

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Limestone	1317-65-3	70 – 80	5 mg/m3 – resp. 15 mg/m3 – total	3 mg/m3 – resp. 10 mg/m3 – total	REL: 5 mg/m3 – resp. 10 mg/m3 – total

## OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Glass, Fibrous (diameter > 13 µm)	65997-17-3	5 – 15	1 f/cc – resp.	1 f/cc – resp.	REL: 5 mg/m <sup>3</sup> – total fibers
Ceramic Microspheres	66402-68-4	5 – 10	5 mg/m <sup>3</sup> – resp. 15 mg/m <sup>3</sup> – total	3 mg/m <sup>3</sup> – resp. 10 mg/m <sup>3</sup> – total	REL: 5 mg/m <sup>3</sup> – resp. 10 mg/m <sup>3</sup> – total
Calcium Hydroxide	1305-62-0	0 – 1	5 mg/m <sup>3</sup> – resp. 15 mg/m <sup>3</sup> – total	5 mg/m <sup>3</sup>	REL: 5 mg/m <sup>3</sup>
Quartz Silica	14808-60-7	0.01 – 0.34	10 mg/m <sup>3</sup> / (% SiO <sub>2</sub> + 2) – resp.	0.025 mg/m <sup>3</sup>	REL: 0.05 mg/m <sup>3</sup> – resp.

## SECTION 3: HAZARDS IDENTIFICATION

**PRIMARY ROUTE OF EXPOSURE:** Skin contact.

**SIGNS & SYMPTOMS OF EXPOSURE**

**EYES:** Potential for eye irritation.

**SKIN:** Potential for skin irritation.

**INGESTION:** Not expected to be ingested.

**INHALATION:** Potential for respiratory tract irritation.

**ACUTE HEALTH HAZARDS:** Excessive grinding or abrasion of this product may create airborne dust and fiber concentrations in excess of state and Federal OSHA permissible exposure limits. Exposure to concentrations in excess of these PELs may cause severe respiratory irritation, skin irritation and/or eye irritation.

**CHRONIC HEALTH HAZARDS:** Repeated and/or prolonged exposure to dust and fibers at concentrations in excess of state and Federal OSHA permissible exposure limits may result in respiratory damage, chronic skin irritation and/or eye injury.

**CARCINOGENICITY:** Direct implantation of glass fibers into the lung tissue of laboratory animals has produced lung fibrosis and lung cancer. Human epidemiological studies of inhalation exposure have yielded negative results. NTP Listed; Carcinogen IARC Class 3. Note: Fiberglass is completely encapsulated in the product. If handled under normal conditions, fiberglass should not be released.

The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have determined that there is sufficient evidence in humans for the carcinogenicity of inhaled

crystalline silica in the form of quartz or cristobalite. In addition, IARC has determined that there is sufficient evidence for the carcinogenicity of quartz and cristobalite in experimental animals. Among individuals with silicosis, lung cancer occurs more frequently in those who smoke.

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**SECTION 4: FIRST AID MEASURES**

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**FIRST AID PROCEDURES**

<b>EYES:</b>	Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.
<b>SKIN:</b>	Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.
<b>INHALATION:</b>	Remove affected persons from source of exposure. Seek medical attention if irritation persists or if affected persons develop breathing difficulties.
<b>INGESTION:</b>	This product is not intended for consumption or direct contact with any type of food or beverage. Seek medical attention if this product is ingested.

**NOTES TO PHYSICIANS OR  
FIRST AID PROVIDERS:** N/A

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**SECTION 5: FIRE FIGHTING PROCEDURES**

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<b>SUITABLE EXTINGUISHING MEDIA:</b>	Water, Foam, Dry Chemical, Sand and CO2
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon dioxide and carbon monoxide.
<b>RECOMMENDED FIRE FIGHTING PROCEDURES:</b>	Treat with generally accepted practices for combustible product
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	N/A

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Collect spilled material in appropriate containers for reuse or disposal. Avoid dry sweeping and other spill removal procedures that may create airborne dust and fibers.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:** No specific handling or storage requirements.

**OTHER PRECAUTIONS:** None.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS / VENTILATION:** Use of this product is not anticipated to require more than general room ventilation during normal conditions of use that are in accordance with the manufacturer's specified applications. However, use of this product in other applications not specified by the manufacturer could potentially generate airborne dust and fibers that may require additional mechanical exhaust to prevent employee overexposures. Excessive grinding or abrasion of this product may create airborne dust and fiber concentrations in excess of state and Federal OSHA permissible exposure limits. If employee exposures exceed these PELs, local exhaust ventilation or other mechanical ventilation systems may be required to reduce such exposures to concentrations below the PELs. If mechanical exhaust ventilation is necessary, exhaust air should be appropriately filtered or otherwise controlled to meet local, state and Federal air pollution and air quality laws and standards.

**RESPIRATORY PROTECTION:** If employee exposures exceed state or Federal OSHA permissible exposure limits, respiratory protection should be worn until and unless such exposures are reduced to concentrations below these PELs. Only NIOSH-approved respirators should be worn. Selection and use of specific respirators should meet applicable standards set by state and Federal OSHA standards for respiratory protection and for the specific substances and concentrations to which employees are exposed.

**EYE PROTECTION:** Wear safety glasses with sideshields or safety goggles. Selection and use of all eye protection should meet applicable standards set by the American National Standards Institute (ANSI) and state and Federal OSHA standards.

**SKIN PROTECTION:** Wear sturdy work gloves and intact clothing with long sleeves and long pants.

**OTHER PROTECTIVE EQUIPMENT:** Where respiratory protection is used, such use must comply with state and Federal OSHA standards. Only respirators approved by the National Institute for Occupational and Health (NIOSH) should be used.

**WORK HYGIENIC PRACTICES:**

Employees should avoid eating, drinking, chewing, smoking, taking medication and applying cosmetics in work areas where this product is being installed or removed. Employees should wash their hands and other exposed areas of skin after handling this product and before smoking or consuming anything. Employees should shower at the end of each work shift after installing or removing this product. Work clothing should be washed separately and the washing machine should be wiped out at the end of the washing cycle.

**EXPOSURE GUIDELINES:**

N/A

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	Tan Color, Mineral-filled Mat – Odorless		
<b>FLASH POINT:</b>	No data	<b>LOWER EXPLOSIVE LIMIT:</b>	No data
<b>METHOD USED:</b>	No data	<b>UPPER EXPLOSIVE LIMIT:</b>	No data
<b>EVAPORATION RATE:</b>	No data	<b>BOILING POINT:</b>	No data
<b>pH (undiluted product):</b>	No data	<b>MELTING POINT:</b>	No data
<b>SOLUBILITY IN WATER:</b>	Insoluble	<b>SPECIFIC GRAVITY:</b>	No data
<b>VAPOR DENSITY:</b>	No data	<b>PERCENT VOLATILE:</b>	No data
<b>VAPOR PRESSURE:</b>	No data	<b>MOLECULAR WEIGHT:</b>	No data
<b>VOC WITH WATER (LBS/GAL):</b>	No data	<b>WITHOUT WATER (LBS/GAL):</b>	No data

**SECTION 10: STABILITY AND REACTIVITY****THERMAL STABILITY:**

STABLE X

UNSTABLE ☐**CONDITIONS TO AVOID (STABILITY):**

None

**INCOMPATIBILITY (MATERIAL TO AVOID):**

Strong acids will react with the limestone component releasing CO<sub>2</sub> gas.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

Carbon Monoxide, Carbon Dioxide and Hydrocarbons will result from incomplete combustion of the organic binder if involved in a fire.

**HAZARDOUS POLYMERIZATION:**

Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:** No information available.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** No information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal.

**RCRA HAZARD CLASS:** None

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**SECTION 14: TRANSPORTATION INFORMATION**

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**U.S. DOT TRANSPORTATION**

**PROPER SHIPPING NAME:** This product is not classified as a hazardous material for transport.

**HAZARD CLASS:** N/A

**ID NUMBER:** N/A

**PACKING GROUP:** N/A

**LABEL STATEMENT:** N/A

**OTHER:** N/A

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

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

**CERCLA:** None

**SARA**

**311/312 HAZARD CATEGORIES:** None

**313 REPORTABLE INGREDIENTS:** None

**CALIFORNIA PROPOSITION 65:** This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Glass, Fibrous (diameter > 13 micron)	65997-17-3	Yes	No	Yes	Yes	Yes	Yes
Ceramic Microspheres	66402-68-4	No	No	No	No	No	Yes
Quartz Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Calcium Hydroxide	1305-62-0	Yes	Yes	Yes	Yes	Yes	Yes

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**SECTION 16: OTHER INFORMATION**

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**ADDITIONAL COMMENTS:** None

**DATE OF PREVIOUS MSDS:** May 2008

**CHANGES SINCE PREVIOUS MSDS:** Changed VersaShield™ to VersaShield®; Updated product name – removed FB-1S and FB-2S; Updated section 2.

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