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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** VersaShield® Solo Fire-Resistant Slip Sheet

**MANUFACTURER:** GAF

**ADDRESS:** 1 Campus Drive, Parsippany, NJ 07054

**24-HOUR EMERGENCY PHONE (CHEMTREC):** 800 – 424 – 930

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

**PREPARED BY:** Corporate EHS

**APPROVED BY:** Corporate EHS

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**SECTION 2: HAZARDS IDENTIFICATION**

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As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

**ADDITIONAL HAZARD IDENTIFICATION INFORMATION:**

**PRIMARY ROUTE OF EXPOSURE:** Skin contact, Eye 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 exposure limits.

Exposure to concentrations in excess of the exposure limits 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 exposure limits may result in respiratory damage, chronic skin irritation and/or eye injury.

**CARCINOGENICITY:**

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.

Sulfuric acid contained in strong inorganic acids mists is classified as a group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Limestone	1317-65-3	35 – 45	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
Graphite	7782-42-5	10 – 25	15 mppcf	2 mg/m <sup>3</sup> – resp.	REL: 2.5 mg/m <sup>3</sup> – resp.
Fibrous Glass	65997-17-3	10 – 25	1 f/cc – resp.	1 f/cc – resp.	REL: 5 mg/m <sup>3</sup> – total fibers
Aluminum Trihydrate	21645-51-2	10 – 25	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
Sulfuric Acid (bound in graphite)	7664-93-9	0 – 6	1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	REL: 1 mg/m <sup>3</sup>
Nitric Acid (bound in graphite)	7697-37-2	0 – 4	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup> 4 mg/m <sup>3</sup> – STEL	REL: 2 mg/m <sup>3</sup>
Crystalline Silica	14808-60-7	0 – 0.10	50 mcg/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.
Non-hazardous ingredients	-	5 – 15	NE	NE	NE

**NE = Not Established**

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**SECTION 4: FIRST AID MEASURES**

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**FIRST AID PROCEDURES**

**EYES:** Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN:** Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.

**INHALATION:** Remove affected persons from source of exposure. Seek medical attention if irritation persists or if affected persons develop breathing difficulties.

**INGESTION:** 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:** None.

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**SECTION 5: FIRE FIGHTING PROCEDURES**

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**SUITABLE EXTINGUISHING MEDIA:** Water, Foam, Dry Chemical, Sand and Carbon Dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide and carbon monoxide.

**RECOMMENDED FIRE FIGHTING PROCEDURES:** Treat with generally accepted practices for combustible products.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** None.

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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

**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 exposure limits. If employee exposures exceed the exposure limits, local exhaust ventilation or other mechanical ventilation systems may be required to reduce such exposures to concentrations below the exposure limits.

**RESPIRATORY PROTECTION:**

If employee exposures exceed applicable exposure limits, respiratory protection should be worn. 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.

**SKIN PROTECTION:**

Wear sturdy work gloves and intact clothing with long sleeves and long pants.

**OTHER PROTECTIVE EQUIPMENT:**

Wear appropriate closed-toe shoes or boots.

**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:**

None.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	Blue-colored, 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 carbon dioxide 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.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**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:** Comply with state and local regulations for disposal.

**RCRA HAZARD CLASS:** None

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**SECTION 14: TRANSPORTATION INFORMATION**

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**US DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

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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:** CERCLA Hazardous Substances (40 CFR 302)

Reportable Quantity – Components

Sulfuric acid, 7664-93-9, 1000 lbs.

Nitric acid, 7697-37-2, 1000 lbs.

**SARA**

**311/312 HAZARD CATEGORIES:** Acute Health Hazard, Chronic Health Hazard

**313 REPORTABLE INGREDIENTS:** Sulfuric acid, 7664-93-9, 0 – 6%  
Nitric acid, 7697-37-2, 0 – 4%

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

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
Graphite	7782-42-5	Yes	Yes	Yes	Yes	Yes	Yes
Fibrous Glass	65997-17-3	Yes	No	Yes	Yes	No	Yes
Aluminum Trihydrate	21645-51-2	No	No	No	No	No	No
Sulfuric Acid	7664-93-9	Yes	Yes	Yes	Yes	Yes	Yes
Nitric Acid	7697-37-2	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

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**SECTION 16: OTHER INFORMATION**


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**ADDITIONAL COMMENTS:** None

**DATE OF PREVIOUS SDS:** January 2014

**CHANGES SINCE PREVIOUS SDS:** Section 15

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This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.