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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** FireShield® MB  
**TRADE NAME:** FireShield®  
**CHEMICAL NAME /  
SYNONYM:** N/A  
**CHEMICAL FAMILY:** N/A  
**MANUFACTURER:** GAF  
**ADDRESS:** 1 Campus Drive, Parsippany, NJ 07054  
**24-HOUR EMERGENCY  
PHONE (CHEMTREC):** 800 – 424 – 9300  
**INFORMATION ONLY:** 800 – 766 – 3411  
**PREPARED BY:** Corporate EHS  
**APPROVED BY:** Corporate EHS

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**SECTION 2: HAZARD IDENTIFICATION**

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**NFPA and HMIS RATINGS:**

	NFPA Hazard Rating		HMIS Hazard Rating
	1		1
	0		0
Special Hazards	-	Personal Protection	X

**GHS LABEL ELEMENTS:**

**GHS CLASSIFICATION:** Eye Irritant - Category 2A  
Eye Damage - Category 1  
Acute Toxicity - Category 4  
Carcinogen - Category 2  
Target Organ (SE) - Category 3  
Target Organ (RE) – Category 1  
Hazardous to the Aquatic Environment (chronic) - Category 1



SIGNAL WORD: Danger

HAZARD STATEMENTS: May cause damage to organs through prolonged or repeated exposure  
 May cause respiratory irritation  
 Causes skin irritation  
 May cause eye damage or serious eye irritation  
 Suspected of causing cancer  
 May cause drowsiness or dizziness  
 Toxic to aquatic life with long lasting effects

#### ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Inhalation, Skin Contact, Eye Contact

#### SIGNS & SYMPTOMS OF EXPOSURE

**EYES:** Exposure to vapors can cause irritation to the eyes.

**SKIN:** Slight irritation of the skin. Prolonged contact can cause reddening of the skin.

**INGESTION:** Headaches, nausea and diarrhea.

**INHALATION:** Vapors or mists can cause mental sluggishness, irritation of nasal passages, throat and lungs. Can cause headaches, nausea, diarrhea, and shortness of breath.

**ACUTE HEALTH HAZARDS:** See signs and symptoms of exposure above.

**CHRONIC HEALTH HAZARDS:** None known.

**CARCINOGENICITY:** Titanium Dioxide is classified as a 2B carcinogen (possibly 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
Aluminum Trihydrate	21645-51-2	20 – 40	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
Titanium Dioxide	13463-67-7	2 – 10	15 mg/m <sup>3</sup> – total	10 mg/m <sup>3</sup> – total	REL: lowest

					feasible concentration
Graphite	7782-42-5	2 – 10	15 mppcf	2 mg/m <sup>3</sup> – resp.	REL: 2.5 mg/m <sup>3</sup> – resp.
Zinc Borate	138265-88-0	2 – 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
Non-hazardous ingredients	-	55 – 65	NE	NE	NE

NE = Not Established

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#### SECTION 4: FIRST AID MEASURES

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##### FIRST AID PROCEDURES

- EYES:** Flush eyes with water for 15 minutes. If irritation persists, call a physician.
- SKIN:** Wash contaminated skin with soap and water
- INHALATION:** Remove patient to an area that has fresh air. If breathing has stopped, administer artificial respiration. Contact physician immediately.
- INGESTION:** If the patient is awake, induce vomiting by giving 2 glasses of water and pressing down at back of throat. Call physician immediately. Never give anything by mouth to an unconscious person.

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

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#### SECTION 5: FIRE FIGHTING PROCEDURES

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- SUITABLE EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry chemical or foam.
- HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and carbon dioxide.
- RECOMMENDED FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus recommended.
- UNUSUAL FIRE & EXPLOSION HAZARDS:** None known.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Dam up area to prevent spreading. Caution – area will be slippery. Use absorbent material to dry up the compound. Provide ventilation in closed areas.

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a well ventilated area at 50 – 80 °F.

**OTHER PRECAUTIONS:** Protect from freezing.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS / VENTILATION:** Local exhaust, mechanical ventilation.

**RESPIRATORY PROTECTION:** NIOSH approved respirator.

**EYE PROTECTION:** Chemical splash goggles.

**SKIN PROTECTION:** Impervious type gloves.

**OTHER PROTECTIVE EQUIPMENT:** N/A

**WORK HYGIENIC PRACTICES:** Wash and launder clothing after working with product.

**EXPOSURE GUIDELINES:** N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE &amp; ODOR:</b>	Heavy white liquid with ammonia odor.		
<b>FLASH POINT:</b>	240 °F	<b>LOWER EXPLOSIVE LIMIT:</b>	No data
<b>METHOD USED:</b>	TCC	<b>UPPER EXPLOSIVE LIMIT:</b>	No data
<b>EVAPORATION RATE:</b>	1.0	<b>BOILING POINT:</b>	212 °F
<b>pH (undiluted product):</b>	No data	<b>MELTING POINT:</b>	No data
<b>SOLUBILITY IN WATER:</b>	Dilutable in water	<b>SPECIFIC GRAVITY:</b>	1.32
<b>VAPOR DENSITY:</b>	No data	<b>PERCENT VOLATILE:</b>	No data
<b>VAPOR PRESSURE:</b>	No data	<b>MOLECULAR WEIGHT:</b>	No data



**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

## SECTION 15: REGULATORY INFORMATION

### 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:** Acute Health Hazard

**313 REPORTABLE INGREDIENTS:** None

**CALIFORNIA PROPOSITION 65:** None

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
Aluminum Trihydrate	21645-51-2	No	No	No	No	No	No
Titanium Dioxide	13463-67-7	No	No	Yes	Yes	Yes	Yes
Graphite	7782-42-5	Yes	Yes	Yes	Yes	Yes	Yes
Zinc Borate	138265-88-0	Yes	Yes	Yes	Yes	No	No

## SECTION 16: OTHER INFORMATION

**ADDITIONAL COMMENTS:** None

**DATE OF PREVIOUS SDS:** October 2013

**CHANGES SINCE PREVIOUS SDS:** Headquarters Address Change

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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.**