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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** Fleece Membrane Adhesive Part 2  
**TRADE NAME:** N/A  
**CHEMICAL NAME /  
SYNONYM:** Polyurethane System Resin Component  
**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:**

	<b>NFPA Hazard Rating</b>		<b>HMIS Hazard Rating</b>
	2		2
<i>Health</i>	0	<i>Health</i>	0
<i>Flammable</i>	0	<i>Flammable</i>	0
<i>Reactive</i>	0	<i>Reactive</i>	0
<b>Special Hazards</b>	-	<b>Personal Protection</b>	X

**GHS LABEL ELEMENTS:**

**GHS CLASSIFICATION:** Eye Irritant - Category 2A  
Eye Damage - Category 1  
Skin Irritant - Category 2  
Skin Sensitizer - Category 1  
Respiratory Sensitizer - Category 1  
Target Organ (SE) - Category 2  
Target Organ (RE) - Category 2  
Carcinogen - Category 2  
Mutagenicity - Category  
Acute Toxicity - Category 4  
Hazardous to the Aquatic Environment - Category 2

GHS PICTOGRAMS:    

SIGNAL WORD: Danger

**HAZARD STATEMENTS:** May cause damage to organs through prolonged or repeated exposure  
Causes skin irritation  
Causes serious eye irritation or damage  
May cause an allergic skin reaction  
May cause respiratory irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause drowsiness or dizziness  
May cause an allergic skin reaction  
Suspected of causing cancer  
Harmful if swallowed  
Toxic to aquatic life with long lasting effects

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**ADDITIONAL HAZARD IDENTIFICATION INFORMATION:**

**PRIMARY ROUTE OF EXPOSURE:** Inhalation, Skin contact

**SIGNS & SYMPTOMS OF EXPOSURE**

**EYES:** May cause eye irritation.

**SKIN:** May cause skin irritation. A single, prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**INGESTION:** Swallowing this material may be harmful.

**INHALATION:** Avoid breathing vapors or mists. Prolonged or excessive inhalation may cause respiratory tract irritation.

**ACUTE HEALTH HAZARDS:** May cause target organ damage, based on animal data. Organs include bladder, respiratory tract, liver, kidney, central nervous system, gastrointestinal tract.

**CHRONIC HEALTH HAZARDS:** Diethylene Glycol has caused toxicity to the fetus and some birth defects at the maternally toxic, high doses in animals.

**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.

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

CHEMICAL NAME	CAS #	%	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Proprietary Blend of Materials		<60	NE	NE	NE
Diethylene Glycol	111-46-6	<20	NE	NE	NE
Dipropylene Glycol	25265-71-8	<10	NE	NE	NE
Polyether Polycol	25322-69-4	<15	NE	NE	NE
Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1- (1-Meth)	6846-50-0	<15	NE	NE	NE

NE = Not Established

**SECTION 4: FIRST AID MEASURES****FIRST AID PROCEDURES**

**EYES:** After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops or persists.

**SKIN:** Remove contaminated clothing and shoes. Immediately wash exposed area with soap and water. Get medical attention if irritation develops or persists.

**INHALATION:** Move individual away from exposure and into fresh air. If not breathing, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention if cough or other symptoms develop.

**INGESTION:** If swallowed get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** No information available.

**SECTION 5: FIRE FIGHTING PROCEDURES**

**SUITABLE EXTINGUISHING MEDIA:** Water fog or fine spray, carbon dioxide, alcohol resistant foams are preferred or dry powder. Do not use direct water

stream.

**HAZARDOUS COMBUSTION PRODUCTS:** CarboDuring fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. May include and are not limited to: Carbon dioxide and carbon monoxide.

**RECOMMENDED FIRE FIGHTING PROCEDURES:** Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**UNUSUAL FIRE & EXPLOSION HAZARDS:** No special fire hazards are known to be associated with this product.

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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Stop spill at source, dike area of spill to prevent spreading. Absorb spill with inert material such as dry sand or earth and place in a chemical waste container. Treat or dispose of waster material in accordance with all local, state/provincial, and national requirements.

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#### SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Avoid extreme temperatures. Keep container closed when not in use. Store in a cool dry place, (60.1° F – 80.1° F). Shelf life is 8 months at 80.1° F.

**OTHER PRECAUTIONS:** Product produces slippery conditions.

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

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**ENGINEERING CONTROLS / VENTILATION:** Provide appropriate ventilation. Close container after each use. Keep container closed to avoid contamination. Keep out of reach of Children.

**RESPIRATORY PROTECTION:** If workplace exposure limit(s) of product or any component is exceeded, a NIOSH-approved respirator is advised in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

**EYE PROTECTION:** Safety glasses should be worn.

**SKIN PROTECTION:** Avoid contact with skin. Selection of specific PPE such as boots, gloves, aprons, and full body suit will depend on operation.

**OTHER PROTECTIVE EQUIPMENT:** N/A

**WORK HYGIENIC PRACTICES:** Wash hands thoroughly after handling and before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

**EXPOSURE GUIDELINES:** N/A

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	Brown liquid with a slight sweet odor.		
<b>FLASH POINT:</b>	375.1° F	<b>LOWER EXPLOSIVE LIMIT:</b>	No data
<b>METHOD USED:</b>	TCC	<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>	Slight	<b>SPECIFIC GRAVITY:</b>	No data
<b>VAPOR DENSITY:</b>	8.5	<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**  **UNSTABLE**

**CONDITIONS TO AVOID (STABILITY):** High temperatures.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Avoid contact with strong oxidizing agents, acids, and bases.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Decomposition will not occur if handled and stored properly. Thermal decomposition is highly dependent on conditions. A complex of mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion, thermal, or oxidative degradation.

**HAZARDOUS POLYMERIZATION:** N/A

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION: Acute oral toxicity**

Diethylene:

Ingestion: LD 50 Rat: 12,565 mg/kg approximately, lethal dose, human adult 2 ounces.

Skin Absorption: LD 50 Rat: 12,510 mg/kg

Inhalation: LD 50 4 hours, Rat: &gt; 4.4 mg/l.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** Bioconcentration potential is low (BCF less than 100 or log Pow less than 3).

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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:** Fleece Membrane Adhesive Part 2**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; Chronic Health Hazard

**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
Diethylene Glycol	111-46-6	No	?	?	No	No	No
Dipropylene Glycol	25265-71-8	No	?	?	No	No	No
Polyether Polycol	25322-69-4	No	?	?	No	No	No
Propanoic Acid, 2-Methyl-, 2,2-Dimethyl-1- (1-Meth)	6846-50-0	No	?	?	No	No	No

**SECTION 16: OTHER INFORMATION**

**ADDITIONAL COMMENTS:** None.

**DATE OF PREVIOUS SDS:** October 2013

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

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.

