



**GAF**  
**Safety Data Sheet**  
**SDS # 2064**  
**SDS Date: June 2019**

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**SECTION 1: PRODUCT AND COMPANY INFORMATION**

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**PRODUCT NAME:** EnergyGuard™ Ultra Polyiso Roof Insulation  
EnergyGuard™ Barrier Polyiso Insulation  
EnergyGuard™ Ultra Tapered Polyiso Insulation

**CHEMICAL FAMILY:** Polyisocyanurate

**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: 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.

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**ADDITIONAL HAZARD IDENTIFICATION INFORMATION:**

**PRIMARY ROUTE OF EXPOSURE:** Inhalation

**SIGNS & SYMPTOMS OF EXPOSURE**

**EYES:** May cause irritation to the eyes.

**SKIN:** May cause irritation to the skin.

**INGESTION:** Not applicable.

**INHALATION:**

Inhalation of high vapor concentrations of 141-B and Freon 22 can cause dizziness, unconsciousness, difficulty in breathing, and death due to asphyxiation. Rapid or irregular heartbeat with abnormally low blood pressure may occur. High vapor concentrations of pentanes may cause dizziness, headaches, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

**ACUTE HEALTH HAZARDS:**

The dust produced by reprocessing of this product may aggravate pre-existing respiratory diseases. Persons with a known history of heart disease or irregularities of heart beat should avoid breathing vapors that may be released from product containing 141-B and Freon 22 during reprocessing or altering of this product.

**CHRONIC HEALTH HAZARDS:**

The 141-B and Freon 22 that may be used in this product may cause the heart to become sensitized to epinephrine and to stop on sudden physical exertion or excitement. May cause respiratory sensitization.

This product may contain tris (monochloropropyl) phosphate, which may cause skin sensitization.

**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.

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

			OCCUPATIONAL EXPOSURE LIMITS		
CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
1-1, -Dichloro-1-Fluoroethane	1717-00-6	0-15	NE	NE	NE
Chlorodifluoromethane	75-45-6	0-2	NE	1000 ppm	REL: 1000 ppm
Cyclopentane	287-92-3	0-10	NE	600 ppm	REL: 600 ppm
Tris (monochloropropyl) Phosphate	13674-84-5	0-8	NE	NE	NE
Fibrous Glass	None	<25	NE	1 f/cc	REL: 3/fcc TWA
Non-hazardous Ingredients	None	>40	N/A	N/A	N/A

NE=Not Established

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**SECTION 4: FIRST AID MEASURES**

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**FIRST AID PROCEDURES**

<b>EYES:</b>	Hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at eyewash fountain.
<b>SKIN:</b>	Wash affected area thoroughly with soap and water when time permits.
<b>INHALATION:</b>	Remove to fresh uncontaminated air.
<b>INGESTION:</b>	Induce vomiting. Consult medical personnel.

**NOTES TO PHYSICIANS OR  
FIRST AID PROVIDERS:** None

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**SECTION 5: FIRE FIGHTING PROCEDURES**

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<b>SUITABLE EXTINGUISHING MEDIA:</b>	Water spray, Alcohol foam, Carbon Dioxide, or Dry chemical.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon Dioxide and Carbon Monoxide, and possibly (if contains 141-B and Freon 22) Hydrogen Cyanide, Hydrogen Fluoride, Hydrogen Chloride, and Chlorine and Fluorine gas.
<b>RECOMMENDED FIRE FIGHTING PROCEDURES:</b>	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Emits dense, black smoke when burned. Certain operations such as grinding or cutting may lead to a build up of dust suspended in air which can cause a dust explosion if ignited. Provide adequate ventilation and appropriate dust handling systems. Cyclopentane, a highly flammable material, may be present within this product (if produced using pentane technology).

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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<b>ACCIDENTAL RELEASE MEASURES:</b>	Use only in well ventilated areas. Wear appropriate personal protective equipment. Protect against dust that may be generated by reprocessing, altering or applying this product. Minimize dust generation and accumulation. Pick up large pieces. Sweep and scoop up material and put into a suitable container for disposal as a non-hazardous waste.
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**SECTION 7: HANDLING AND STORAGE**

<b>HANDLING AND STORAGE:</b>	Use only in well ventilated areas. Wear appropriate personal protective equipment. Protect against dust that may be generated by reprocessing, altering or applying this product. Minimize dust generation and accumulation. Pick up large pieces. Sweep and scoop up material and put into a suitable container for disposal as a non-hazardous waste.
<b>OTHER PRECAUTIONS:</b>	None

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

<b>ENGINEERING CONTROLS / VENTILATION:</b>	Local mechanical ventilation.
<b>RESPIRATORY PROTECTION:</b>	Use in a well-ventilated location. During reprocessing, altering, and/or applying this product, a NIOSH respirator is recommended if the operator's exposure level exceeds the PEL or TLV for nuisance particulate.
<b>EYE PROTECTION:</b>	Wear safety glasses with side shields when reprocessing, altering and/or applying this product.
<b>SKIN PROTECTION:</b>	Wear cotton or leather gloves when handling this product.
<b>OTHER PROTECTIVE EQUIPMENT:</b>	Not applicable.
<b>WORK HYGIENIC PRACTICES:</b>	Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.
<b>EXPOSURE GUIDELINES:</b>	Not applicable.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE &amp; ODOR:</b>	White rigid cellular sheets/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

VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data
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**SECTION 10: STABILITY AND REACTIVITY**

THERMAL STABILITY: STABLE X UNSTABLE ☐

CONDITIONS TO AVOID (STABILITY): Chlorine and chlorine compounds and peroxides.

INCOMPATIBILITY (MATERIAL TO AVOID): Not applicable.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Not applicable.

HAZARDOUS POLYMERIZATION: Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

TOXICOLOGICAL INFORMATION: No information available.

**SECTION 12: ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: No information available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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

**SECTION 14: TRANSPORTATION INFORMATION**

DOT

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**SECTION 15: REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS****TSCA:** All components are listed on the TSCA inventory.**CERCLA:** N/A**SARA****311/312 HAZARD CATEGORIES:** Fire Hazard, Acute Health Hazard, Chronic Health Hazard**313 REPORTABLE INGREDIENTS:** 1-1, -Dichloro-1-Fluoroethane - 1717-00-6  
Chlorodifluoromethane - 75-45-6**CALIFORNIA PROPOSITION 65:** Not Applicable.

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
1-1, -Dichloro-1-Fluoroethane	1717-00-6	No	No	N/A	Yes	No	No
Chlorodifluoromethane	75-45-6	Yes	No	N/A	Yes	Yes	Yes
Cyclopentane	287-92-3	Yes	Yes	N/A	Yes	Yes	Yes
Tris (monochloropropyl) Phosphate	13674-84-5	No	No	No	No	No	No
Fibrous Glass	None	No	No	No	No	No	No

**SECTION 16: OTHER INFORMATION****ADDITIONAL COMMENTS:** Product produced under the same name may include 141-B and Freon 22 or pentanes and tris (monochloropropyl) phosphate in the process. Those products produced using 141-B and Freon 22 will

not contain pentanes and tris (monochloropropyl) phosphate, while those produced using pentane technology will be freon-free. Physiological effects given in Section 3 are for dust and fume that may be generated during the reprocessing, altering or application of this product. Facers of this product may be foil, kraft paper, fiberglass, perlite, wood, black felt, or a combination of these.

**DATE OF PREVIOUS SDS:** July 2018

**CHANGES SINCE PREVIOUS SDS:** Changes to Sections 7.

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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.**