

EnergyGuard™ Ultra Poly ISO Roof Insulation

Material Safety Data Sheet

Updated: 10/08



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GAF Materials Corporation
Material Safety Data Sheet
MSDS # 2064
MSDS Date: October 2008

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: EnergyGuard™ Ultra Poly ISO Roof Insulation

TRADE NAME: N/A

CHEMICAL NAME / SYNONYM: N/A

CHEMICAL FAMILY: Polyisocyanurate

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: Corporate EHS

APPROVED BY: Corporate EHS

NFPA Hazard Rating

HMIS Hazard Rating

Health	1	Health	1
Flammable	1	Flammable	1
Reactive	0	Reactive	0
Special Hazards	-	Personal Protection	X
OSHA HAZARDOUS:	Yes <input type="checkbox"/>		No <input checked="" type="checkbox"/>

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
1,1,1-Trichloro-1,2,2,2-tetrafluoroethane	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

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
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

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE: Inhalation

SIGNS & SYMPTOMS OF EXPOSURE

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION: N/A

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 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYES: Hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at eyewash fountain.

SKIN: Wash affected area thoroughly with soap and water when time permits.

INHALATION: Remove to fresh uncontaminated air.

INGESTION: Induce vomiting. Consult medical personnel.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA: Water spray, Alcohol foam, Carbon Dioxide, or Dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: 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.

RECOMMENDED FIRE FIGHTING PROCEDURES: Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved.

UNUSUAL FIRE & EXPLOSION HAZARDS: 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).

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: None established.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep away from heat, sparks, and open flames. Store in a cool, dry area. Applying to hot surfaces required special precautions. Protect against dust that may be generated by reprocessing,

altering or applying this product. Remove dust by vacuuming rather than blowing.

OTHER PRECAUTIONS: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Local mechanical ventilation.

RESPIRATORY PROTECTION: 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.

EYE PROTECTION: Wear safety glasses with side shields when reprocessing, altering and/or applying this product.

SKIN PROTECTION: Wear cotton or leather gloves when handling this product.

OTHER PROTECTIVE EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	White rigid cellular sheets/odorless.		
FLASH POINT:	No Data	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	No Data	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	Insoluble	SPECIFIC GRAVITY:	No Data
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	No Data
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

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: 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: N/A

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 pentance 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 MSDS: 10/18/03
CHANGES SINCE PREVIOUS MSDS: Update

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.