



GAF Materials Corporation
Material Safety Data Sheet
MSDS # 2146
MSDS Date: January 2011

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: EnergyGuard Polyiso Insulation all Thicknesses
EnergyGuard RA Polyiso Insulation all Thicknesses
EnergyGuard RM Polyiso Insulation all Thicknesses
EnergyGuard RN Polyiso Insulation all Thicknesses
EnergyGuard tapered Polyiso Insulation all Thicknesses
EnergyGuard RA tapered Polyiso Insulation all Thicknesses
EnergyGuard RM tapered Polyiso Insulation all Thicknesses
EnergyGuard RN tapered Polyiso Insulation all Thicknesses

TRADE NAME: N/A

**CHEMICAL NAME /
SYNONYM:** N/A

CHEMICAL FAMILY: N/A

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
Flammable	1
Reactive	0
Special Hazards	-

1
1
0
-

Health	1
Flammable	1
Reactive	0
Personal Protection	X

1
1
0
X

OSHA HAZARDOUS: Yes

No

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

CHEMICAL NAME	CAS #	% (BY WT)	OSHA	ACGIH	OTHER
Polyisocyanurate Foam	-	5 - 90	NE	NE	NE
Wood Fiber Board	-	0 - 90	NE	NE	NE
Foil Kraft Facing	-	0 -30	NE	NE	NE
Aluminum	7429-90-5	0 - 19.5	5 mg/m ³ – resp. 15 mg/m ³ – total	5 mg/m ³ – resp. 10 mg/m ³ – total	10 mg/m ³ NIC – 1R NIC – A3
DuraGlass® 8824G and 8924G Mats	-	5 - 15	NE	NE	NE
Continuous Filament Glass Fibers	65997-17-3	1.75 - 12	NE	NE	NE
Fiber JM Designation 481	65997-17-3	0 – 7.95	NE	NE	NE
Butan, 2-methyl-	78-78-4	0 – 3.15	1000 ppm	120 ppm	600 ppm
Cyclopentane	287-92-3	0 – 3.15	NE	600 ppm	600 ppm
Pentane	109-66-0	0 – 3.15	1000 ppm	120 ppm	660 ppm
Formaldehyde	50-00-0	0 – 0.0011	.075 ppm	.016 ppm	.3 ppm Ceiling
Wood Dust	-	-	NE	NE	NE
Black Facer	-	10 - 50	NE	NE	NE
Carbon black	1333-86-4	0 – 3.15	3.5 mg/m ³	3.5 mg/m ³	3.5 mg/m ³

NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

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

SIGNS & SYMPTOMS OF EXPOSURE

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: Can cause gastrointestinal irritation.

INHALATION:	May cause respiratory irritation.
ACUTE HEALTH HAZARDS:	Exposure to this product may aggravate pre-existing skin and respiratory diseases.
CHRONIC HEALTH HAZARDS:	None known.
CARCINOGENICITY:	Carbon black is classified as a 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Formaldehyde is classified as a 1 carcinogen (Carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Wood dust (certain types) is classified as a 1 carcinogen (Carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYES:	Flush with warm water for 15 minutes and seek immediate medical if irritation occurs.
SKIN:	Wash with soap and water for 15 minutes.
INHALATION:	Move victim to fresh air. Seek immediate medical attention if symptoms occur.
INGESTION:	Wash out mouth with water. Do not induce vomiting directed to do so by medical personnel.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA:	Use an extinguishing agent suitable for the surrounding fire.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, carbon monoxide.
RECOMMENDED FIRE FIGHTING PROCEDURES:	Wear impermeable protective clothing and self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION	No specific fire or explosion hazard.

HAZARDS:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Vacuum or sweep up material and place in a designated, labeled waste container.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Appropriate personal protective equipment should be worn. Workers should wash hands and face before eating, drinking, and smoking. Store in original container protected from direct sunlight in dry, cool and well-ventilated areas, away from incompatible materials and food and drink.

OTHER PRECAUTIONS: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Local exhaust ventilation may be used in areas where cutting is performed to remove airborne dust and fibers.

RESPIRATORY PROTECTION: If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH-certified disposable or reusable particulate respirator with an efficiency rating of N95 or higher may be used.

EYE PROTECTION: Safety glasses with side shields are recommended.

SKIN PROTECTION: Wear leather or cotton gloves when handling this product to avoid prolonged skin contact and irritation. Barrier creams may also be used to reduce skin contact and irritation caused by fiber glass.

OTHER PROTECTIVE EQUIPMENT: Ear protection may be worn to prevent airborne dust from entering the ear. A cap, loose-fitting long sleeved shirt and long pants should be worn to protect skin from irritation.

WORK HYGIENIC PRACTICES: Workers should wash hands and face before eating, drinking, and smoking. Clothes should be washed separately from other clothes to prevent fiber glass from being transferred.

EXPOSURE GUIDELINES: Cyclopentane: 600 ppm
Wood Dust: 5 mg/m³ TWA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Solid, yellow/tan and odorless.		
FLASH POINT:	N/A	LOWER EXPLOSIVE LIMIT:	N/A
METHOD USED:	N/A	UPPER EXPLOSIVE LIMIT:	N/A
EVAPORATION RATE:	N/A	BOILING POINT:	N/A
pH (undiluted product):	N/A	MELTING POINT:	N/A
SOLUBILITY IN WATER:	N/A	SPECIFIC GRAVITY:	0.03
VAPOR DENSITY:	N/A	PERCENT VOLATILE:	N/A
VAPOR PRESSURE:	N/A	MOLECULAR WEIGHT:	N/A
VOC WITH WATER (LBS/GAL):	N/A	WITHOUT WATER (LBS/GAL):	N/A

SECTION 10: STABILITY AND REACTIVITY**THERMAL STABILITY:****STABLE X****UNSTABLE** **CONDITIONS TO AVOID (STABILITY):**

Keep away from heat, sparks, or open flame.

INCOMPATIBILITY (MATERIAL TO AVOID):

Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide, and dimethyl formamide.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Under normal conditions, hazardous decomposition will not occur.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION**TOXICOLOGICAL INFORMATION:****Acute toxicity****Butane, 2-methyl-:**

LC50 inhalation Mouse: 150 mg/l, 2 h

LC50 inhalation Rat: 280 mg/l, 4 h

Cyclopentane:

LD50 Oral Rat: 11,400 mg/kg

LD50 Oral Mouse: 12,800 mg/kg

Acute toxicity cont.:

Pentane:	LD50 Oral Rat: > 2,000 mg/kg LC50 inhalation Rat: 364 mg/l, 4 h LD50 Other Mouse: 446 mg/kg
Formaldehyde:	LD50 Oral Rat: 100 mg/kg LD50 Oral Mouse: 42 mg/kg LD50 Oral Mouse: 385 mg/kg LD50 Oral Mouse: 500 mg/kg LD50 Oral Rat: 500 mg/kg LC50 inhalation Mouse: 0.454 mg/l, 4 h LC50 inhalation Mouse: 0.505 mg/l, 2 h LC50 inhalation Rat: 0.578 mg/l, 2 h LC50 inhalation Rat: 250 ppm, 2 h LC50 inhalation Rat: 815 ppm, 0.5 h LC50 inhalation Rat: 250 ppm, 4 h LD50 Dermal Rabbit: 270 mg/kg LD50 Other Rat: 420 mg/kg LD50 Other Mouse: 300 mg/kg LD50 Other Mouse: 300 mg/kg LD50 Other Rat: 87 mg/kg LD50 Other Rat: 420 mg/kg
Carbon black:	LD50 Oral Rat: > 15,400 mg/kg LD50 Dermal Rabbit: > 3,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:**Aquatic ecotoxicity**

Aluminum:	4 d LC50 Fresh water Oncorhynchus mykiss: 0.31 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 0.16 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 0.12 mg/l
Formaldehyde:	4 d LC50 Fresh water Pimephales promelas: 24.1 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 47.2 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 98 mg/l 4 d LC50 Fresh water Lepomis macrochirus: 40 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 40 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 68.8 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 68.4 mg/l 4 d LC50 Fresh water Oncorhynchus mykiss: 47.2 mg/l 2 d EC50 Fresh water Daphnia magna: 29 mg/l 2 d EC50 Fresh water Daphnia magna: 14 mg/l 2 d EC50 Fresh water Daphnia magna: 14.6 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of according to all federal, state and local applicable regulations.

RCRA HAZARD CLASS: N/A

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: N/A

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: CERCLA Hazardous Substances (40 CFR 302)

Reportable Quantity – Components

DuraGlass® 8824G and 8924G Mats: 1000 lbs

Formaldehyde: 50-00-0 100 lbs

SARA

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

313 REPORTABLE INGREDIENTS: Aluminum 7429-90-5 10-30%

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer.

Cancer: Formaldehyde
Carbamic Acid, Methyl Ester
Acrylamide

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
Polyisocyanurate Foam	-	N/A	N/A	N/A	N/A	N/A	N/A
Wood Fiber Board	-	N/A	N/A	N/A	N/A	N/A	N/A
Foil Kraft Facing	-	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum	7429-90-5	Yes	No	Yes	Yes	Yes	Yes
DuraGlass® 8824G and 8924G Mats	-	N/A	N/A	N/A	N/A	N/A	N/A
Continuous Filament Glass Fibers	65997-17-3	Yes	Yes	Yes	No	Yes	No
Fiber JM Designation 481	65997-17-3	Yes	Yes	Yes	No	Yes	No
Butan, 2-methyl-	78-78-4	No	No	No	Yes	Yes	No
Cyclopentane	287-92-3	Yes	Yes	Yes	Yes	Yes	Yes
Pentane	109-66-0	Yes	Yes	Yes	Yes	Yes	Yes
Formaldehyde	50-00-0	Yes	Yes	Yes	Yes	Yes	Yes
Wood Dust	-	No	No	Yes	No	No	Yes
Black Facer	-	N/A	N/A	N/A	N/A	N/A	N/A
Carbon black	1333-86-4	Yes	No	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS MSDS: New MSDS

CHANGES SINCE PREVIOUS MSDS: N/A

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

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