



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: GAF MasterFlow™ Flexible Ductwork
 Sizes: F6IFD 4" – 10", 12"
 F8IFD 4" – 10", 12"
 8IFD
 MIF 12"

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 | 2 | Health | 2 |
| Flammable | 1 | Flammable | 1 |
| Reactive | 0 | Reactive | 0 |
| Special Hazards | - | Personal Protection | X |
| OSHA HAZARDOUS: | Yes <input checked="" type="checkbox"/> X | No | <input type="checkbox"/> |

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Insulation
 Makes up 30% of product

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---------------|------------|-----------|------|-------|-------|
| Cured Binder | 25104-55-6 | < 20 | NE | NE | NE |

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OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|-------------------------|------------|-----------|------|-------|---|
| Fibrous Glass (Wool) | 65997-17-3 | 80-100 | NE | 1 fcc | REL: 5 mg/m ³ (3 f/cc TWA) |

Metalized Jacket

Makes up 30% of product (No black jacket is used when using metalized jacket)

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|--------------------------------|------------|-----------|----------------------|----------------------|---|
| Polyethylene Teraphthalate | 25038-59-9 | 40-45 | NE | NE | NE |
| Decabromodipheny l Oxide | 1163-19-5 | 10-15 | NE | NE | NE |
| Antimony Trioxide | 1309-64-4 | 1-5 | .5 mg/m ³ | .5 mg/m ³ | .5 mg/m ³ |
| Polyoxyethylene Decyl Ether | 61827-42-7 | NE | NE | NE | NE |
| Vinyl Acetate | 108-05-4 | <1 | NE | 35 mg/m ³ | REL: C 15 mg/m ³ – 15 min |
| Fiber Glass Yarn | 65997-17-3 | 90-100 | NE | 1 fcc | REL: 5 mg/m ³ (3 f/cc TWA) |
| Non-Hazardous Ingredients | - | 1-5 | NE | NE | NE |

Black Jacket

Makes up 30% of product (No metalized jacket is used when using black jacket)

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---|------------|-----------|-----------------------|-----------------------|-------------------------------|
| Carbon Black | 1333-86-4 | >1 | 3.5 mg/m ³ | 3.5 mg/m ³ | REL: 3.5 mg/m ³ |
| Benzene,1,1'-(1,2- ethanediyl) bis[2,3,4,5,6- pentabromo-] | 84852-53-9 | >1 | NE | NE | NE |

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OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---------------------|------------|-----------|----------|----------|----------|
| Antimony Compound | 7440-36-0 | <15 | .5 mg/m3 | .5 mg/m3 | .5 mg/m3 |
| Magnesium Hydroxide | 1309-42-8 | >1 | NE | NE | NE |
| Polyolefin | 24937-78-8 | >1 | NE | NE | NE |
| Diatomaceous Earth | 68855-54-9 | >1 | NE | NE | NE |

Core

Makes up 30% of product

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|----------------------------|------------|-----------|------|-------|-------|
| Polyethylene Teraphthalate | 25038-59-9 | 90-100 | NE | NE | NE |
| Iron | - | 95-100 | NE | NE | NE |
| Regular Elements for Steel | - | < 5 | NE | NE | NE |
| Polymer/Solids | - | 50-60 | NE | NE | NE |
| Non-Hazardous Ingredients | - | 40-50 | NE | NE | NE |
| Acrylic Latex | - | 10-15 | NE | NE | NE |

Scrim

Makes up 10% of product (Used only when Black Jacket is Used)

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---|------------|-----------|------|-----------------|-------------------|
| Fiber Glass Textile Continuous Filament | 65997-17-3 | 80-90 | NE | 5 mg/m3 Respir. | REL: 5 mg/m3 Resp |
| Polyvinyl Alcohol Coating | - | 0-10 | NE | NE | NE |

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NE = Not Established

* As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products above are considered articles and do not require an MSDS. However, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled properly. All components listed for this product are bound within the product. When handled as intended and under normal conditions, none of the ingredients should be released and should not pose a significant health risk.

SECTION 3: HAZARDS IDENTIFICATION

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

SIGNS & SYMPTOMS OF EXPOSURE

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION: This product is not intended to be ingested. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

INHALATION: May cause irritation to the respiratory tract.

ACUTE HEALTH HAZARDS: People with pre-existing respiratory conditions, may experience difficulty breathing, congestion, and chest tightness. Individuals with skin conditions may temporarily worsen from exposure to this product.

CHRONIC HEALTH HAZARDS: N/A

CARCINOGENICITY: Carbon Black is classified as a 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYES: Flush eyes with large amounts of water for 10-15 minutes. If irritation persists, contact a medical physician.

SKIN: Wash off with soap and cold water. Warm water will open up pores to allow further fiber penetration.

INHALATION: Move to fresh air. Drink water to clear throat and blow nose to remove fibers.

INGESTION: Rinse mouth with water and water to remove fibers from the throat.

NOTES TO PHYSICIANS OR Treat as symptomatically.

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FIRST AID PROVIDERS:

SECTION 5: FIRE FIGHTING PROCEDURES

| | |
|--|---|
| SUITABLE EXTINGUISHING MEDIA: | Dry chemical, water, foam, carbon dioxide, and water fog. |
| HAZARDOUS COMBUSTION PRODUCTS: | Carbon monoxide, carbon dioxide, monomers, and ammonia. |
| RECOMMENDED FIRE FIGHTING PROCEDURES: | Wear self-contained breathing apparatus and full fire fighting protective gear. |
| UNUSUAL FIRE & EXPLOSION HAZARDS: | N/A |

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Use an industrial vacuum cleaner or use the wet-method to clean up dust to prevent fibers from spreading. Pick up large pieces.

SECTION 7: HANDLING AND STORAGE

| | |
|------------------------------|--|
| HANDLING AND STORAGE: | Avoid dust formation. Keep product in its package until use. Product should be kept dry. |
| OTHER PRECAUTIONS: | Use proper PPE as described in section 8. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|--|--|
| ENGINEERING CONTROLS / VENTILATION: | Local exhaust system or dust collection system to control fibers if needed. |
| RESPIRATORY PROTECTION: | A properly fitted NIOSH approved disposable N 95 type dust respirator or better may be worn. |
| EYE PROTECTION: | Safety glasses with side shields or goggles. |
| SKIN PROTECTION: | Protective gloves, long sleeve shirt and long pants should be worn. |
| OTHER PROTECTIVE EQUIPMENT: | Barrier creams may be used to reduce skin contact and irritation caused by fiber glass. |

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WORK HYGIENIC PRACTICES: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|--|---------------------------------|-------------------------|
| APPEARANCE & ODOR: | Flexible duct with a wire core wrapped in insulation and either a black or silver jacket. Slight organic odor. | | |
| FLASH POINT: | None | 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: | 1450 – 1535° C Steel |
| SOLUBILITY IN WATER: | Insoluble | SPECIFIC GRAVITY: | 7.8 |
| 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 |

SECTION 10: STABILITY AND REACTIVITY

THERMAL STABILITY: **STABLE** **UNSTABLE**

CONDITIONS TO AVOID (STABILITY): Black jacket (if used) is slightly flammable around flames, sparks, and heat.

INCOMPATIBILITY (MATERIAL TO AVOID): N/A

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, and ammonia.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION:

Carcinogens:

| | |
|---------------|--------------------------------|
| Cured Binders | LD50 Oral Rat: 7 g/kg |
| | LD50 Oral Mouse: 7 g/kg |
| | LD50 Inhalation Rat: 7 gm/kg |
| | LD50 Inhalation Mouse: 7 gm/kg |
| | LD50 In Rat: 11,400 mg/kg |
| | LD50 Oral Mouse: 12,800 mg/kg |

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

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

U.S. DOT TRANSPORTATION

| | |
|------------------------------|---|
| 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 |

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: Some components of this product are listed on the TSCA 12(b), 8(d) inventory.

CERCLA: N/A

SARA

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: Carbon Black 1333-86-4 <15%

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 |
|---|------------|-----|-----|-----|-----|-----|-----|
| Cured Binder | 25104-55-6 | No | No | No | No | No | No |
| Fibrous Glass (Wool), Fiber Glass Textile Continuous Filament, Fiber Glass Yarn | 65997-17-3 | Yes | Yes | Yes | No | Yes | Yes |
| Polyethylene Terephthalate | 25038-59-9 | No | No | No | No | No | No |
| Decabromodiphenyl Oxide | 1163-19-5 | No | No | No | Yes | Yes | Yes |
| Antimony Trioxide | 1309-64-4 | Yes | Yes | Yes | Yes | Yes | Yes |
| Polyoxyethylene Decyl Ether | 61827-42-7 | No | No | No | No | No | No |
| Vinyl Acetate | 108-05-4 | Yes | Yes | Yes | Yes | No | Yes |
| Carbon Black | 1333-86-4 | Yes | No | Yes | Yes | Yes | Yes |
| Antimony Compound | 7440-36-0 | Yes | Yes | No | Yes | Yes | No |
| Benzene, 1,1'-(1,2-ethanediyl) bis[2,3,4,5,6-pentabromo-] | 84852-53-9 | No | No | No | No | No | No |
| Magnesium Hydroxide | 1309-42-8 | No | No | No | No | No | No |
| Polyolefin | 24937-78-8 | No | No | No | No | No | No |
| Diatomaceous Earth | 68855-54-9 | No | No | No | No | No | No |
| Iron | - | No | No | No | No | No | No |
| Regular Elements for Steel | - | No | No | No | No | No | No |

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| | | | | | | | |
|---------------------------|---|----|----|----|----|----|----|
| Polymer/Solids | - | No | No | No | No | No | No |
| Polyvinyl Alcohol Coating | - | No | No | No | No | No | No |

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: N/A

DATE OF PREVIOUS MSDS: 1-1-2011

CHANGES SINCE PREVIOUS MSDS: New SDS Header changed from MSDS to SDS on 4.22.2021

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.