

TopCoat® EnergyCote™

Material Safety Data Sheet

Updated: 12/08



*Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™*



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: TOPCOAT® EnergyCote™
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 | Health | 1 |
| 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

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---------------------|------------|-----------|---|---|---|
| Titanium Dioxide | 13463-67-7 | 20 – 40 | 15 mg/m ³ – total | 10 mg/m ³ – total | REL: lowest feasible concentration |
| Aluminum Trihydrate | 21645-51-2 | 10 – 30 | 5 mg/m ³ – resp. 15 mg/m ³ – total | 3 mg/m ³ – resp. 10 mg/m ³ – total | REL: 5 mg/m ³ – resp., 10 mg/m ³ – total |

OCCUPATIONAL EXPOSURE LIMITS

| CHEMICAL NAME | CAS # | % (BY WT) | OSHA | ACGIH | OTHER |
|---------------------------|-------|-----------|------|-------|-------|
| Non-hazardous ingredients | n/a | 60 – 75 | NE | NE | NE |

NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE: Inhalation, Skin contact

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Irritation and itching.

SKIN: Slight irritation to the skin and itching.

INGESTION: Not likely to occur.

INHALATION: Irritation of nasal passages, throat and lungs. Can cause headaches and nausea.

ACUTE HEALTH HAZARDS: Slight irritation.

CHRONIC HEALTH HAZARDS: None known.

CARCINOGENICITY: Titanium Dioxide 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 water for 15 minutes. If irritation occurs, consult a physician.

SKIN: Wash skin with soap and water.

INHALATION: Remove patient to an area that has fresh air. If breathing has stopped administer artificial respiration. Call physician immediately.

INGESTION: Call physician immediately. Do not induce vomiting. Give 2 glasses of water to drink. Do not give anything by mouth to an unconscious person.

NOTES TO PHYSICIANS OR None known.

FIRST AID PROVIDERS:

SECTION 5: FIRE FIGHTING PROCEDURES

| | |
|--|---|
| SUITABLE EXTINGUISHING MEDIA: | Water spray, CO2, dry chemical or foam. |
| HAZARDOUS COMBUSTION PRODUCTS: | Carbon dioxide and carbon monoxide. |
| RECOMMENDED FIRE FIGHTING PROCEDURES: | Self-contained breathing apparatus recommended. |
| UNUSUAL FIRE & EXPLOSION HAZARDS: | None known. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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|-------------------------------------|---|
| ACCIDENTAL RELEASE MEASURES: | Dam up area to prevent spreading. Caution – area may be slippery. Use absorbent material to dry up the wet compound. Provide ventilation in closed areas. |
|-------------------------------------|---|

SECTION 7: HANDLING AND STORAGE

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|------------------------------|---|
| HANDLING AND STORAGE: | Store at 50 – 80 °F. |
| OTHER PRECAUTIONS: | Protect from freezing. Product will freeze at 32 °F and will be rendered useless. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
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| ENGINEERING CONTROLS / VENTILATION: | For outdoor use. Provide ventilation as necessary to maintain exposure below occupational exposure limits. |
| RESPIRATORY PROTECTION: | Use in ventilated area. Use particulate filter respirator in misty conditions. |
| EYE PROTECTION: | Safety glasses with side shields. |
| SKIN PROTECTION: | Impervious gloves. |
| OTHER PROTECTIVE EQUIPMENT: | N/A |

WORK HYGIENIC PRACTICES: Wash and launder clothing after use. Wash affected skin with warm water and soap.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|---------------------------------|---------------------------------|-----------|
| APPEARANCE & ODOR: | White liquid with acrylic odor. | | |
| FLASH POINT: | N/A (water based product) | LOWER EXPLOSIVE LIMIT: | No data |
| METHOD USED: | CC | UPPER EXPLOSIVE LIMIT: | No data |
| EVAPORATION RATE: | > 1 | BOILING POINT: | 212 °F |
| pH (undiluted product): | 10 +/- 1.5 | MELTING POINT: | No data |
| SOLUBILITY IN WATER: | Yes | SPECIFIC GRAVITY: | 1.0 – 1.3 |
| VAPOR DENSITY: | > 1 | PERCENT VOLATILE: | 35 – 40 |
| VAPOR PRESSURE: | 17 mm Hg | MOLECULAR WEIGHT: | No data |
| VOC WITH WATER (LBS/GAL): | 0.1 | WITHOUT WATER (LBS/GAL): | 31 |

SECTION 10: STABILITY AND REACTIVITY

THERMAL STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID (STABILITY): NA

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

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

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

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

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

313 REPORTABLE INGREDIENTS: None.

CALIFORNIA PROPOSITION 65: None.

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 |
|---------------------|------------|----|----|-----|-----|-----|-----|
| Titanium Dioxide | 13463-67-7 | No | No | Yes | Yes | Yes | Yes |
| Aluminum Trihydrate | 21645-51-2 | No | No | No | No | No | No |

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS MSDS: April 2006

CHANGES SINCE PREVIOUS MSDS: General 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.