

MATERIAL SAFETY DATA SHEET



I. PRODUCT INFORMATION

MANUFACTURER'S NAME: GAF Materials Corporation

REGULAR TELEPHONE NO (913) 599-5300

EMERGENCY TELEPHONE NO. (913) 599-5300

ADDRESS: 9806 Lackman, Lenexa, KS 66219

TRADE NAME: This MSDS applies to the following product names or types.

Onyx™ 4X4 Post

Onyx™ 5X5 Post Sleeve

Signature™ Onyx™ 29.5" and 35.5" Baluster

Signature™ Onyx™ 6' and 8' Handrail

SYNONYMS: Synthetic Lumber

SHIPPING NAME: Synthetic Lumber DOT: Non-Hazardous, Not Regulated

II. HAZARDOUS INGREDIENTS

<u>MATERIAL OR COMPONENT</u>	<u>CAS NO.</u>	<u>%</u>	<u>HAZARD DATA</u>
Wood Fiber Dust	NE	25-75	ACGIH(TLV-TWA)=5.0 mg/m ³ ; STEL(15 min)=10 mg/m ³ (softwood); TWA=1.0 mg/m ³ (certain hardwoods such as beech and oak) OSHA(PEL-TWA)=15 mg/m ³ Total Dust = 5 mg/m ³ Respirable Fraction
Carbon Black (Pigment 7) Class D2A WHMIS Canada	1333-86-4	<3%	ACGIH(TLV-TWA)=3.5 mg/m ³ ; OSHA(PEL-TWA)=3.5 mg/m ³ †
Proprietary Nonhazardous Ingredients	NA	balance	NA

*NOTE: In AFL-CIO v. OSHA 965 F.2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminant's Rule, including specific PELs for wood dust that OSHA had established at that time. THE 1989 PELs WERE: TWA – 5.0 mg/m³; STEL (15min) – 10.0 mg/m³ (ALL SOFT AND HARDWOODS, EXCEPT WESTERN RED CEDAR); WESTERN RED CEDAR: TWA 2.5 mg/m³.

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under this section. HOWEVER, A NUMBER OF STATES HAVE INCORPORATED PROVISIONS OF THE 1989 STANDARD IN THEIR STATE PLANS. ADDITIONALLY, OSHA HAS ANNOUNCED THAT IT MAY CITE COMPANIES UNDER THE OSHA ACT GENERAL DUTY CLAUSE UNDER APPROPRIATE CIRCUMSTANCES FOR NON-COMPLIANCE WITH THE 1989 PELs.

†**Carbon Black IARC Statement:** In 1995 International Agency for Research on Cancer (IARC) concluded, "There is inadequate evidence in humans for the carcinogenicity of carbon black." Based on rat inhalation studies, IARC concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black", resulting in their classifying carbon black as "possibly carcinogenic to humans (Group 2B)".

Carbon black is not designated a carcinogen by the U.S. National Toxicology Program (NTP), the U.S. Occupational Safety and Health Administration (OSHA), the American Conference of Governmental Industrial Hygienists (ACGIH) or the European Union (EU).

Carbon Black is listed on the California Proposition 65 list if the material is not encapsulated. For the product, as delivered, the material is encapsulated. Overexposure is not anticipated during normal conditions of use that are in accordance with the manufacturer's specified applications. **See specific instructions in the MSDS covering cases where heavy dust generation is expected.**

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III. PHYSICAL DATA

<u>BOILING POINT, 760 MM HG</u>	NA	<u>MELTING POINT</u>	230-356°F (110-180°C)
<u>SPECIFIC GRAVITY (H₂O=1)</u>	~1.8	<u>VAPOR PRESSURE</u>	NA
<u>VAPOR DENSITY (AIR=1)</u>	NA	<u>SOLUBILITY IN H₂O % BY WT</u>	Insoluble
<u>% VOLATILES BY VOL.</u>	NA	<u>EVAPORATION RATE (BUTYL ACETATE-1)</u>	NA
<u>APPEARANCE AND ODOR</u>	Solid, Odorless	<u>pH (AS IS)</u> <u>pH (1% SOLN.)</u>	NA

IV. FIRE AND EXPLOSION DATA

<u>FLASH POINT (TEST METHOD)</u>	NA	<u>AUTOIGNITION TEMPERATURE</u>	Typically 400-500°F		
<u>FLAMMABLE LIMITS IN AIR, % BY VOL.</u>	NA	<u>LOWER</u>	NA	<u>UPPER</u>	NA
<u>EXTINGUISHING MEDIA</u>	WATER, FOAM, DRY CHEMICAL, SAND AND CO ₂ . DO NOT USE WATER JET.				
<u>SPECIAL FIRE FIGHTING PROCEDURES</u>	In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing.				
<u>UNUSUAL FIRE AND EXPLOSION HAZARD</u>	Avoid accumulation and dispersion of dust. Fire may produce irritating gases and dense smoke.				

V. HEALTH HAZARD INFORMATION

<u>HEALTH HAZARD DATA</u>	<u>HAZARD CLASSIFICATION</u>	<u>BASIS FOR CLASSIFICATION</u>	<u>SOURCE</u>
<u>ROUTES OF EXPOSURE</u> <u>INHALATION</u>	NUISANCE DUST	"Industrial Exposures and Control Technologies for OSHA Regulated Hazardous Substances"	1-19-89 Federal Register
<u>SKIN CONTACT</u>	NUISANCE DUST	" "	" "
<u>SKIN ABSORPTION</u>	NA		
<u>EYE CONTACT</u>	NUISANCE DUST	"Industrial Exposures and Control Technologies for OSHA Regulated Hazardous Substances"	1-19-89 Federal Register
<u>INGESTION</u>	NA		" "

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EFFECTS OF OVEREXPOSURE: Use of this product is not anticipated to result in employee overexposure during normal conditions of use that are in accordance with the manufacturer's specified applications. However, use of this product in other applications not specified by the manufacturer could potentially result in eye, skin and/or respiratory irritation.

ACUTE OVEREXPOSURE: Excessive grinding or abrasion of this product may create airborne dust and fiber concentrations in excess of state and Federal OSHA permissible exposure limits. Exposure to concentrations in excess of these PELs may cause severe respiratory irritation, skin irritation and/or eye irritation.

CHRONIC OVEREXPOSURE: Repeated and/or prolonged exposure to dust and fibers at concentrations in excess of state and Federal OSHA permissible exposure limits may result in respiratory damage, chronic skin irritation and/or eye injury. This product contains encapsulated wood dust. The IARC classifies certain wood dust as a carcinogen to humans (Group 1). Carbon black has been evaluated by IARC as possibly carcinogenic to humans (Group 2B).

V. (CONT.) EMERGENCY AND FIRST AID PROCEDURES

EYES: Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN: Wash with soap and water. Rinse with clean water for at least 15 minutes. Seek medical attention if irritation persists.

INHALATION: Remove affected persons from source of exposure. Seek medical attention if irritation persists or if affected persons develop breathing difficulties.

INGESTION: This product is not intended for consumption. Seek medical attention if this product is ingested.

NOTES TO PHYSICIAN: NA

VI. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: May decompose under fire conditions.

INCOMPATIBILITY: NA

HAZARDOUS DECOMPOSITION PRODUCTS: Primary decomposition products include carbon monoxide, carbon dioxide, and water.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Will not occur.

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VII. DISPOSAL, SPILL OR LEAK PROCEDURES

AQUATIC TOXICITY: NA

WASTE DISPOSAL METHOD: Dispose of waste in accordance with local, state, and Federal laws and regulations pertaining to material of this type of composition.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Collect spilled material in appropriate containers for reuse or disposal. Avoid dry sweeping and other spill removal procedures that may create airborne dust and fibers.

NEUTRALIZING CHEMICALS NA

VIII. SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use of this product is not anticipated to require more than general room and/or outdoor ventilation during normal conditions of use that are in accordance with the manufacturer's specified applications. However, use of this product in other applications not specified by the manufacturer could potentially generate airborne dust and fibers that may require additional mechanical exhaust to prevent employee overexposures. Excessive grinding or abrasion of this product may create airborne dust and fiber concentrations in excess of state and Federal OSHA permissible exposure limits. If employee exposures exceed these PELs, local exhaust ventilation or other mechanical ventilation systems may be required to reduce such exposures to concentrations below the PELs. If mechanical exhaust ventilation is necessary, exhaust air should be appropriately filtered or otherwise controlled to meet local, state and Federal air pollution and air quality laws and standards.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT: Where respiratory protection is used, such use must comply with state and Federal OSHA standards (29 CFR 1910.134 Subpart 1). Only respirators approved by the National Institute for Occupational and Health (NIOSH) should be used.

EYES: Wear safety glasses with sideshields or safety goggles. Selection and use of all eye protection should meet applicable standards set by the American National Standards Institute (ANSI) and state and Federal OSHA standards.

SKIN: Wear sturdy work gloves and intact clothing with long sleeves and long pants.

FEET: Wear socks and appropriate, closed-toe shoes or boots. Selection and use of all foot protection should meet applicable standards set by the American National Standards Institute (ANSI) and state and Federal OSHA standards.

HEAD: Wear a hard hat, bump cap or other head covering appropriate for the specific work areas and activities to be performed. Selection and use of all head protection should meet applicable standards set by the American National Standards Institute (ANSI) and state and Federal OSHA standards.

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RESPIRATORY:

If employee exposures exceed state or or Federal OSHA permissible exposure limits, respiratory protection should be worn until and unless such exposures are reduced to concentrations below these PELs. Only NIOSH-approved respirators should be worn. Selection and use of specific respirators should meet applicable standards set by state and Federal OSHA standards for respiratory protection and for the specific substances and concentrations to which employees are exposed.

WORK PRACTICES:

Employees should avoid eating, drinking, chewing, smoking, taking medication and applying cosmetics in work areas where this product is being installed or removed. Employees should wash their hands and other exposed areas of skin after handling this product and before smoking or consuming anything. Employees should shower at the end of each work shift after installing or removing this product. Work clothing should be washed separately and the washing machine should be wiped out at the end of the washing cycle.

IX. SPECIAL PRECAUTIONS

STATE:

This product contains chemicals known to the State of California to cause cancer and/or reproductive toxicity, as defined by Title 22 California Code of Regulations Section 12000. Carbon Black (airborne, unbound particles of respirable size) is listed on Proposition 65. Finished parts have encapsulated carbon black not requiring special labeling.

ADDITIONAL REGULATORY CONCERNS:

FEDERAL- NA **CARCINOGENICITY -** Y

FDA- NA **IARC -** Y

USDA- NA **OSHA -** N

TSCA IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? Yes

OTHER HANDLING AND STORAGE REQUIREMENTS: NONE

OTHER: While GAF Materials Corporation believes the data set forth herein is accurate as of the date hereof, GAFMC makes no warranty, express or implied, regarding its correctness with respect thereto and expressly disclaims all liability for reliance thereon. The conditions and methods of handling, storage, use and disposal of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

DATE: February 5, 2008