



GAF
Safety Data Sheet
SDS # 2093
SDS Date: July 2024

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Timberline HDZ®
Timberline® UHDZ™
Timberline® AH
Timberline® NS
Timberline® AS II
Timberline® CS
Timberline HDZ® RS
Timberline HDZ® RS+
Timberline® Solar HDZ™
Fortitude

TRADE NAME: Asphalt / Fiberglass Shingles

MANUFACTURER: GAF

ADDRESS: 1 Campus Drive, Parsippany, NJ 07054

24-HOUR EMERGENCY PHONE (CHEMTREC): 800 – 424 – 9300

INFORMATION ONLY: 877 – GAF– ROOF

APPROVED BY: Corporate EHS

SECTION 2: HAZARDS IDENTIFICATION

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed above are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Occasional nuisance dust.

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:	NIOSH has found that studies of workers exposed to asphalt fume serous membranes of the conjunctivae (eye irritation) and the mu tract (nasal and throat irritation).
CHRONIC HEALTH HAZARDS:	Studies in humans have found that exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is a serious and irreversible disease; it may be progressive even after exposure has ceased; it can lead to disability and death. Human studies also have found that silicosis is a risk factor for tuberculosis, and that occupational exposure to respirable crystalline silica is associated with chronic obstructive pulmonary disease, including bronchitis and emphysema.
CARCINOGENICITY:	<p>IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic to humans (Group 2A). IARC concluded that available data from cancer studies in humans points to an association between exposures to oxidized asphalts during roofing and lung cancer and tumors in the upper aero-digestive tract. In addition, IARC found sufficient evidence of carcinogenicity in experimental animals for extracts and fume condensates of oxidized asphalts.</p> <p>NIOSH has concluded that the collective data from human, animal, genotoxicity and exposure studies provide sufficient evidence that roofing asphalt fumes are a potential occupational carcinogen. Occupational exposure to respirable crystalline silica is classified as a known carcinogen in humans.</p> <p>IARC has determined that respirable crystalline silica is carcinogenic to humans (Group 1), based on findings of sufficient evidence of carcinogenicity in both humans and experimental animals. NTP has classified respirable crystalline silica as a known human carcinogen based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between exposure to respirable crystalline silica and increased lung cancer rates in workers exposed to crystalline silica dust. NIOSH has determined that respirable crystalline silica is a potential occupational carcinogen.</p>

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	%	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Granules	NA	20-45	NE	NE	NE
Limestone	1317-65-3	25-45	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
Oxidized Asphalt	64742-93-4	10-30	NE	0.5 mg/m ³ (inhalable fraction as benzene soluble aerosol)	5 mg/m ³ –ceiling
Crystalline Silica	14808-60-7	0-10	50 µg/m ³	0.025 mg/m ³	REL 5 mg/m ³ – ceiling
Fiberglass Mat	65997-17-3	1-3	1 f/cc – resp.	1 f/cc – resp.	REL: 5 mg/m ³ – total fibers
Titanium Dioxide	13463-67-7	0-4	15 mg/m ³ – total	10 mg/m ³ – total	REL: lowest feasible concentration

NE = Not Established

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.

INHALATION: Remove to fresh uncontaminated air.

INGESTION: Not expected to be ingested.

**NOTES TO PHYSICIANS OR
FIRST AID PROVIDERS:** No information available

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.

**RECOMMENDED FIRE FIGHTING
PROCEDURES:** NIOSH-approved self-contained breathing apparatus is recommended for smoke protection.

**UNUSUAL FIRE & EXPLOSION
HAZARDS:** None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE
MEASURES:** Pick up or sweep up pieces. Avoid creating dust during clean up.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: No specific handling or storage requirements.

OTHER PRECAUTIONS: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS /
VENTILATION:** None.

RESPIRATORY PROTECTION: Not applicable under normal use conditions. In circumstances where dust or fumes are generated and may exceed recognized allowable exposure levels, appropriate NIOSH approved respiratory protection is recommended.

EYE PROTECTION: Safety glasses with side shields

SKIN PROTECTION: Cotton or leather gloves are recommended when handling.

OTHER PROTECTIVE EQUIPMENT: None

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Granule coated shingle; no appreciable odor. Various colors.		
FLASH POINT:	> 550 °F	LOWER EXPLOSIVE LIMIT:	Not Applicable
METHOD USED:	Not Applicable	UPPER EXPLOSIVE LIMIT:	Not Applicable
EVAPORATION RATE:	Not Applicable	BOILING POINT:	Not Applicable
pH (undiluted product):	Not Applicable	MELTING POINT:	Not Applicable
SOLUBILITY IN WATER:	Not Applicable	SPECIFIC GRAVITY:	Not Applicable
VAPOR DENSITY:	Not Applicable	PERCENT VOLATILE:	Not Applicable
VAPOR PRESSURE:	Not Applicable	MOLECULAR WEIGHT:	Not Applicable
VOC WITH WATER (LBS/GAL):	Not Applicable	WITHOUT WATER (LBS/GAL):	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID (STABILITY): None known.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

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

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Eyes: May cause irritation to the eyes.

Skin: May cause irritation to the skin.

Ingestion: Ingestion may cause discomfort and/or distress.

Inhalation: May cause irritation to the respiratory tract.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Comply with Federal, State and local regulations for disposal.

SECTION 14: TRANSPORTATION INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods,

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 None

311 / 312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

CALIFORNIA PROPOSITION 65: This product contains silica, oxidized asphalt and titanium dioxide, chemicals known to the State of California to cause cancer

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
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Oxidized Asphalt	64742-93-4	No	No	No	No	No	No

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None.

DATE OF PREVIOUS SDS: July 2021

CHANGES SINCE PREVIOUS SDS: Updated product names.

This information relates to the specific material designated and may not be valid for such material used in 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.