



SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Matrix™ 101 Premium SBS Membrane Adhesive

MANUFACTURER: GAF

ADDRESS: 1 Campus Drive, Parsippany, NJ 07054





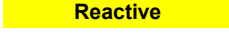
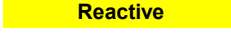
24 HOUR EMERGENCY PHONE: (CHEMTREC) 800-424-9300

INFORMATION ONLY: 877-GAF-ROOF

APPROVED BY: Corporate EHS

SECTION 2: HAZARDS IDENTIFICATION

NFPA and HMIS RATINGS:

	NFPA Hazard Rating		HMIS Hazard Rating
	2		2
	1		1
	0		0
Special Hazards	-	Personal Protection	X

GHS LABEL ELEMENTS:

GHS CLASSIFICATION: Flammable liquid - Category 3
 Skin corrosion/irritation - Category 2
 Serious eye damage/eye irritation - Category 2
 Specific target organ toxicity, single exposure - Category 3 narcotic effects
 Specific target organ toxicity, repeat. Exposure – Category 2
 Germ cell mutagenicity - Category 1
 Carcinogenicity - Category 1

GHS PICTOGRAMS:**SIGNAL WORD:**

Danger

HAZARD STATEMENTS:

Flammable liquid and vapor
 Causes serious eye irritation.
 Causes skin irritation.
 May cause drowsiness or dizziness.
 May cause cancer.
 May cause genetic defects.
 May cause damage to organs through prolonged or repeated exposure.

PREVENTION:

Obtain, read and follow all safety instructions before use.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking..
 Keep container tightly closed.
 Do not eat, drink or smoke when using this product.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Use only non-sparking tools.
 Wear protective gloves/eye protection/face protection.
 Ground/bond container and receiving equipment.
 Wash thoroughly after handling.
 Avoid breathing mist/vapors/spray.
 Use only outdoors or in a well-ventilated area.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water. If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell.
 Take off contaminated clothing and wash it before reuse.
 Specific treatment see Section 4 of this SDS.
 If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Inhalation. Ingestion. Skin contact. Eye contact

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.

SKIN: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.

INGESTION: Components of the product may be absorbed into the body by ingestion. Do not ingest.

INHALATION: May cause irritation of respiratory tract. May cause cancer by inhalation of dust. Prolonged inhalation may be harmful. Avoid breathing dust / fume / gas / mist / vapors / spray.

ACUTE HEALTH HAZARDS: See above.

CHRONIC HEALTH HAZARDS: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

CARCINOGENICITY: IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic to humans (Group 2A)..
 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Mineral Spirits	64742-48-9 or 8052-41-3	20 – 30	500 ppm	100 ppm	REL: 350 mg/m3 1500 mg/m3 IDLH
Oxidized Asphalt	64742-93-4	25 - 35	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	REL: 5 mg/m3 – Ceiling (15 min. fumes)
Asphalt	8052-42-4	10 - 20	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	REL: 5 mg/m3 – Ceiling (15 min. fumes)
Attapulgate	12174-11-7	1 - 10	NE	NE	NE
Quartz (Crystalline Silica)	14808-60-7	<1	50 ug/m3.	0.025 mg/m3	REL: 0.05 mg/m3 – resp.

Other components below reportable levels: ~37%

NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE: Inhalation. Ingestion. Skin contact. Eye contact

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Contact may irritate or burn eyes. Eye contact may result in corneal injury. Do not get this material in contact with eyes.

SKIN: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.

INGESTION:	Components of the product may be absorbed into the body by ingestion. Do not ingest.
INHALATION:	May cause irritation of respiratory tract. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
ACUTE HEALTH HAZARDS:	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.
CHRONIC HEALTH HAZARDS:	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.
CARCINOGENICITY:	<p>IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic to humans (Group 2A).</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.</p>

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYES:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
SKIN:	For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
INHALATION:	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention if symptoms occur.
INGESTION:	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, call a poison control center immediately.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA:	Foam, carbon dioxide, water fog, dry chemical powder. Do not use water jet as an extinguisher, as this will spread the fire.
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HAZARDOUS COMBUSTION PRODUCTS:

Fire may produce irritating, corrosive and/or toxic gases.

RECOMMENDED FIRE FIGHTING PROCEDURES:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Put material in suitable, covered, labeled containers.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools

and explosion-proof equipment. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment.

OTHER PRECAUTIONS:

Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store locked up. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat and sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**ENGINEERING CONTROLS / VENTILATION:**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY PROTECTION:

In case of insufficient ventilation, wear suitable respiratory equipment.

EYE PROTECTION:

Chemical goggles or ANSI approved safety glasses and a face shield are recommended.

SKIN PROTECTION:

Wear appropriate chemical resistant clothing and chemical resistant gloves.

OTHER PROTECTIVE EQUIPMENT:

None.

WORK HYGIENIC PRACTICES:

Do not smoke while using. Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Brown to black viscous liquid with mild petroleum odor.		
FLASH POINT:	100 - 140 °F	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	Open Cup	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	212 °F (100 °C)
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	1.10
VAPOR DENSITY:	> 1	PERCENT VOLATILE:	No Data

VAPOR PRESSURE:	3.88 hPa estimated	VOC CONTENT (g/L):	<250
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SECTION 10: STABILITY AND REACTIVITY

THERMAL STABILITY:**STABLE** X**UNSTABLE** **CONDITIONS TO AVOID (STABILITY):**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID):

Strong oxidizing agents. Strong reducing agents. Alkalines. Acids. This product reacts with hydrofluoric acid. Halogens.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Irritants, Carbon oxides and Sulfur oxides.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation

Headache. Nausea, vomiting. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact

May be irritating to eyes.

Ingestion

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Coughing. Skin irritation. May cause redness and pain.

**Skin corrosion/irritation
Serious eye damage/eye
Irritation**

Causes skin irritation.
May be irritating to eyes.

Respiratory or skin sensitization**Respiratory sensitization
Skin sensitization**

Not a respiratory sensitizer.
Not a skin sensitizer.

Germ cell mutagenicity

May cause genetic defects.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4)	2B Possibly carcinogenic to humans.
ASPHALT, OXIDIZED (CAS 64742-93-4)	2A Probably carcinogenic to humans.
ATTAPULGITE (CAS 12174-11-7)	2B Possibly carcinogenic to humans.

MINERAL SPIRITS (CAS 8052-41-3/64742-48-9) 3 Not classifiable as to carcinogenicity to humans.
 QUARTZ (CAS 14808-60-7) 3 Not classifiable as to carcinogenicity to humans.
 1 Carcinogenic to humans

Reproductive toxicity Not classified.

Specific target organ toxicity - single exposure May cause drowsiness or dizziness. Central nervous system.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not classified.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
BLACKHAWK™ 5501 ROOFING ADHESIVE		
Aquatic		
Crustacea	EC50	Daphnia
Fish	LC50	Fish
<i>Acute</i>		
Crustacea	EC50	Daphnia
Fish	LC50	Fish

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: Tars, liquid

HAZARD CLASS: 3 Combustible Liquid
ID NUMBER: UN 1999
PACKING GROUP: III
LABEL STATEMENT: N/A
OTHER: If shipped by ground in quantities less than 119 gallons (450 liters): Not regulated as a hazardous material.
DOT 49 CFR 173.150 SUB.PAR.F

If shipped by vessel in individual containers that are less than 7.9 gallons (30 liters) each, then IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.

IATA

PROPER SHIPPING NAME: Tars, liquid
HAZARD CLASS: 3
ID NUMBER: UN 1999
PACKING GROUP: III
ERG CODE: 3L
OTHER: Passenger and cargo aircraft: Allowed with restrictions

Cargo aircraft only: Allowed with restrictions.

IMDG

PROPER SHIPPING NAME: Tars, liquid
HAZARD CLASS: 3
ID NUMBER: UN 1999
PACKING GROUP: III
EmS F-E, S-E.

DOT

IATA; IMDG



Further information: If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous material. If shipped by vessel in individual containers that are less than 7.9 gallons (30 L) each, then IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.

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: Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

313 REPORTABLE INGREDIENTS: None.

CALIFORNIA PROPOSITION 65: ASPHALT, OXIDIZED (CAS 64742-93-4)
ATTAPULGITE (CAS 12174-11-7)
QUARTZ (CAS 14808-60-7)

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
Mineral Spirits	64742-48-9	Yes	Yes	Yes	Yes	Yes	Yes
Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Oxidized Asphalt	64742-93-4	Yes	Yes	Yes	Yes	Yes	Yes
Quartz (Crystalline Silica)	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS SDS: April 2020

CHANGES SINCE PREVIOUS SDS: Complete revision.

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.