

MatrixTM
Hydro-Aluminum Emulsion

(Material Safety Data Sheet)
MSDS #2122

Updated: 8/09



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GAF Materials Corporation
Material Safety Data Sheet
MSDS # 2122
MSDS Date: August 2009

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Matrix™ Hydro-Aluminum Emulsion

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
Flammable
Reactive
Special Hazards

1
1
0
-

Health
Flammable
Reactive
Personal Protection

1
1
0
X

OSHA HAZARDOUS: Yes

No

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	OCCUPATIONAL EXPOSURE LIMITS		
		OSHA	ACGIH	OTHER
Petroleum Asphalt	8052-42-4	NE	5 mg/m3	5 mg/m3 – ceiling

		OCCUPATIONAL EXPOSURE LIMITS		
CHEMICAL NAME	CAS #	OSHA	ACGIH	OTHER
Calcium Carbonate	1317-65-3	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
Cellulose Fiber	9004-34-6	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
Aluminum Flake	7429-90-5	15 mg/m ³	10 mg/m ³	5 mg/m ³ – resp. 10 mg/m ³ – total
Non-hazardous ingredients	n/a	NE	NE	NE

NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

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

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Irritation and watering of the eyes. Prolonged or repeated contact can cause blurred vision and corneal injury.

SKIN: Irritation of skin, redness and possible swelling. Prolonged or repeated contact can cause dermatitis, defatting. Can be absorbed through skin.

INGESTION: Amounts ingested incidental to consumer and industrial handling are not likely to cause injury. Ingestion of large amounts can cause serious injury, including gastrointestinal irritation, nausea, and vomiting.

INHALATION: Lightheadedness, staggered gait, headache, dizziness and nausea. Irritation to the nose, throat and lungs. Prolonged inhalation may lead to mucous membrane irritation, central nervous system depression, and unconsciousness.

ACUTE HEALTH HAZARDS: See above

CHRONIC HEALTH HAZARDS: Prolonged and repeated overexposure may cause permanent brain and or nervous system damage. Can cause dermatitis. Sanding dust inhalation may cause lung damage. Intentional misuse through inhalation may be harmful or fatal.

CARCINOGENICITY: The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity

of extract of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam-and air-refined bitumens in experimental animals. Possible skin cancer hazard based on tests with laboratory animals. This product may contain polynuclear aromatic hydrocarbons, some of which may be types that have been shown to cause skin cancer in laboratory animals. This product has not been tested as a whole for all potential health effects. It may have other health hazards related to its components. Skin contact, breathing of mists, fumes or vapors should be reduced to a minimum to avoid any ill effects.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

- EYES:** Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.
- SKIN:** Wash thoroughly with soap and water. If irritation persists, get medical attention.
- INHALATION:** Remove to fresh air. Administer oxygen if necessary. Seek immediate medical attention.
- INGESTION:** Do not induce vomiting. Drink 1 or 2 glasses of water to dilute. Obtain medical attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None known.

SECTION 5: FIRE FIGHTING PROCEDURES

- SUITABLE EXTINGUISHING MEDIA:** Foam, Dry Chemical, CO₂. Do not use water.
- HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and carbon dioxide.
- RECOMMENDED FIRE FIGHTING PROCEDURES:** Polymer film can burn. Avoid breathing fumes of burning dry coating because carbon dioxide/monoxide may be released. Use full protective equipment including self-contained breathing apparatus. Cool closed containers with water.
- UNUSUAL FIRE & EXPLOSION HAZARDS:** Closed containers may explode when exposed to extreme heat or fire. Material may splatter if exposed to extreme heat. Decomposition of burning material may cause toxic gases to form, which may include carbon dioxide and carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Avoid contact and breathing of vapors. Ventilate area. Remove ignition sources. Dike and absorb with absorbent material. Prevent material from entering sewers or open bodies of water.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: When storing containers, close tightly, keep in upright position, away from fire, open flame and high temperature areas. Transfer only to approved containers with complete and appropriate labeling.

OTHER PRECAUTIONS: Keep out of reach of children. Do not take internally. Avoid contact with eyes and prolonged contact with skin. Remove contaminated clothing and laundry before reuse. Remove contaminated shoes and thoroughly dry before reuse. Wash skin thoroughly with soap and water after contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Local exhaust preferable. If in confined areas, use mechanical ventilation to keep vapor concentration under permissible TLV and LEL.

RESPIRATORY PROTECTION: Use only with adequate ventilation. Provide adequate fresh air entry. If not wear the proper respiratory protection. If ventilation is inadequate use an organic vapor/particulate respirator approved by NIOSH/MSHA for spray/mist vapors. When sanding a dried coating film use a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated.

EYE PROTECTION: Splash resistant and spray mist protection required. Use splash goggles or safety glasses with side shields.

SKIN PROTECTION: Waterproof rubber gloves are required during repeated contact.

OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin. Remove and wash before reuse. Eye wash, safety shower

WORK HYGIENIC PRACTICES: Normal industrial hygienic practices should be followed. Wash hands before eating, smoking or using the washroom.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Aluminum colored liquid with slight odor.		
FLASH POINT:	No data	LOWER EXPLOSIVE LIMIT:	No data
METHOD USED:	No data	UPPER EXPLOSIVE LIMIT:	No data
EVAPORATION RATE:	Slower than ether	BOILING POINT:	212 °F
pH (undiluted product):	No data	MELTING POINT:	No data
SOLUBILITY IN WATER:	Soluble	SPECIFIC GRAVITY:	1.1
VAPOR DENSITY:	Heavier than air	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):**

Elevated temperatures and build up of vapors. Heat, sparks and open flame. Avoid free fall.

INCOMPATIBILITY (MATERIAL TO AVOID):

Oxidizers, acids and bases.

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, Chronic Health Hazard

313 REPORTABLE INGREDIENTS: Petroleum Asphalt 8052-42-4
Aluminum Flake 7429-90-5

CALIFORNIA PROPOSITION 65: Petroleum asphalt may contain detectable amounts of chemicals known to the State of California to cause cancer or 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
Petroleum Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Calcium Carbonate	1317-65-3	No	Yes	Yes	No	Yes	Yes
Cellulose Fiber	9004-34-6	Yes	Yes	Yes	No	Yes	Yes
Aluminum Flake	7429-90-5	Yes	No	Yes	Yes	No	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS MSDS: New MSDS

CHANGES SINCE PREVIOUS MSDS: Updated to ANSI 16 section format.

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.