



GLOBAL Encasement, Inc.

MATERIAL SAFETY DATA SHEET GEI-FR Emulsion

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **GEI-FR Emulsion**
PRODUCT USE: Asphalt Emulsion Fire Retardant Roof Coating
PRODUCT DESCRIPTION: Non-Fiber, Water-Based, Asphaltic Bentonite Clay Emulsion
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

Material or Component	CAS Number	% by Weight
Asphaltic bitumen, not cut-back	8052-42-4	34-39
Bentonite	1302-78-9	2-6
*Manganese II sulfate	7785-87-7	0.14-0.35
*Hydrochloric Acid, 10%	7647-01-0	0.1-0.3
*Hydrogen Peroxide solution	7722-84-1	0.1-0.2

**These components have been classified hazardous as above. However, since their levels in the mixture are below the cut-off values per GHS guidelines, their respective hazards will not be in effect for the mixture and will therefore not be declared.*

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:

Inhalation: Vapors or spray mists may be slightly irritating to the eyes, nose, throat, and mucous membrane of the respiratory tract, producing symptoms of a headache and nausea in poorly ventilated areas.

Eye Exposure: Direct contact; serious eye damage/eye irritation.

Skin exposure: Prolonged or repeated contact with coating may cause skin corrosion/irritation.

Ingestion: Harmful if swallowed. May cause nausea.

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: For inhalation, move subject to fresh air. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician if irritation persists. Wash affected skin area with soap and water. If ingested, do not induce vomiting unless directed to do so by a medical personnel.

SECTION V – FIRE AND EXPLOSION INFORMATION

SUITABLE EXTINGUISHING MEDIA: Use dry chemical, foam or carbon dioxide to extinguish fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: This material has been tested to ASTM D-4206 standard and found not to sustain combustion.

SPECIAL FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Dike and contain with inert absorbent material (sand, earth, etc.). Transfer to containers for recovery or disposal. Floors may be slippery; use care to avoid falls. Flush final traces with water.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

PRECAUTIONS TO BE TAKEN IN STORING: Keep container tightly closed and upright to prevent leakage. Precautionary labeling: “Keep from Freezing,” product may coagulate. Material may develop bacterial odor on long-term storage if contaminated.

KEEP AWAY FROM CHILDREN.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required if good ventilation is maintained. Wear MSHA/NIOSH approved dust respirator during spray applications.

ENGINEERING CONTROLS: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29 CFR Part 1910.94.

SKIN PROTECTION: Impervious gloves for prolonged or repeated contact.

EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSI 2-87.1) or approved equivalent.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not available	Evaporation Rate:	Not available
Vapor Density:	Not available	pH:	8.96
Specific Gravity (water = 1.0):	1.0	Viscosity:	120 KU

SECTION X – STABILITY AND REACTIVITY INFORMATION

REACTIVITY: Non-reactive.

STABILITY: Stable.

HAZARDOUS DECOMPOSITION PRODUCTS: By Thermal decomposition: carbon monoxide, carbon dioxide, oxides of nitrogen (NO_x), other potentially toxic fumes, and dense black smoke.

CONDITIONS TO AVOID: Keep from freezing.

INCOMPATIBILITY: Strong oxidizing agents.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

CARCINOGENICITY:

Asphaltic bitumen, not cut-back	No for asphalt emulsions.
Manganese II sulfate	Not available.
Hydrochloric Acid, 10%	No
Hydrogen Peroxide solution	Animal carcinogen with unknown relevance to humans (A3).

SECTION XII – ECOLOGICAL INFORMATION

Chemical	Duration	Species	Value	Units
Hydrochloric Acid, 10%	96 hrs. LC50	Fish	282	3g/L
Hydrogen Peroxide solution	96 hrs. LC50	Fish Pimephales promelas	16.4	mg/L
	72 hrs. LC50	Fish Leuciscus idus	35	
	48 hrs. LC50	Daphnia pulex	2.4	
	24 hrs. LC50	Daphnia Magna	7.7	
	72 hrs. LC50	Algae Skeletonema costatum	1.38	
	21 dNOEC	Daphnia magna	0.63	

Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil: Asphalt is estimated to have a slow rate of biodegradation. This product is not expected to bioaccumulate through food chains in the environment. Analysis for ecological effects have not been conducted on asphalt (no cut-back). Spills into waterways maybe harmful to organisms and bottom feeders.

Not available for other components and mixtures in the products listed.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Waste disposal should be in accordance with existing federal, state and local environmental laws. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

Land Transport (DOT): Not regulated
UN Number: Not applicable

SECTION XV – REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows:
NONE

SECTION XVI – OTHER INFORMATION

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)