

GEOSEAL CORE MATERIAL SAFETY DATA SHEET

LAND SCIENCE TECHNOLOGIES
1011 Calle Sombra
San Clemente, CA 92673
949.366.8000

1. PRODUCT IDENTIFICATION

Trade Names: Geo-Seal CORE, Geo-Seal CORE Detail

Chemical Name: Asphalt Emulsion

Synonyms: N/A

Hazardous Ingredients/OSHA: CHEMICAL FAMILIES:

- A. Bitumen/Asphalt
- B. Synthetic rubber
- C. Fatty acids
- D. Polymers

Hazard: No evidence of serious health hazards exists.

Carcinogenic ingredients/OSHA/NTP: Bitumen IARC: None

Ingredient	Percentage	C. A. S. #
Asphalt	50-60%	8052-42-4
Water	20-40%	7732-18-5
Latex:		9003-55-8
Styrene Latex	0-15%	100-42-5
Butadiene Latex	0-15%	106-99-0
Sodium Hydroxide	.1-1%	1310-73-2
Amino Ethanol	.01-.1%	34375-28-5

2. WARNING STATEMENTS

Avoid prolonged or frequent skin contact, as the presence of emulsifying and de-emulsifying agents during application may irritate the skin.

3. PHYSICAL AND CHEMICAL DATA

Appearance: Brown to black

Specific Gravity: (H₂O = 1): 1.028 (S) 1.034 (R) 1.13 (T)

Solubility in Water: Insoluble

Percent Volatiles: None

Boiling Point: N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Evaporation Rate: N/A

4. FIRE PROTECTION

Bitumen emulsions are water based products and as such will not burn. In cases of fire in the vicinity of drums, cool with water.

5. REACTIVITY DATA

Contact with strong oxidizing agents may create gelling and water condensation.

6. HEALTH HAZARD DATA

Exposure Limits: Avoid prolonged or frequent skin contact.

7. PHYSIOLOGICAL EFFECTS SUMMARY

Acute: Skin irritation and rash

Chronic: Dermatitis

8. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes.

Avoid inhalation.

Avoid prolonged or frequent skin contact.

Avoid ingestion.

9. PROTECTION AND CONTROL MEASURES

Protective Equipment: Use of clothing, gloves, and/or barrier cream is recommended for skin protection.

Respiratory Protection: Inhalation should be avoided, but is not considered to be hazardous.

Ventilation: Use local exhaust ventilation when applying in an enclosed area.

10. EMERGENCY AND FIRST AID PROCEDURES

For ingestion: DO NOT induce vomiting. Keep at rest and get prompt medical attention.

For eye contamination: Irrigate eyes with water.

For skin contact: Wash affected areas of the body with proprietary hand cleaner, then wash with soap and water.

Contact physician as needed for any of the above occurrences.

11. SPILL AND DISPOSAL PROCEDURES

Contain spillages with sand or earth and remove by normal methods. Dispose of according to State and Local regulations. If the Bitumen enters a water course or sewer, advise respective water authority. The non-cured and cured material is non-toxic and non-flammable and can be disposed of in land fill sites.

Other Precautions: For Additional Information Contact:

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Geo-Seal BASE and BOND: Material Safety Data Sheet

Land Science Technologies
1011 Calle Sombra
San Clemente, CA 92673

PHONE: 949-366-8000

1. PRODUCT IDENTIFICATION

Trade Name: Geo-Seal BASE, Geo-Seal BOND
Chemical Name: POLYMERIC COMPONENTS, GEOTEXTILE FABRIC
Synonyms: N/A
Hazardous Ingredients/OSHA: NO HAZARDOUS INGREDIENTS

THIS PRODUCT IS SUPPLIED IN COMPLIANCE WITH THE TSCA REPORTING REUQUIREMENTS.

Carcinogenic Ingredients/OSHA/NTP: NONE
IARC: NONE
Transportation information: CONTAINS NO HAZARDOUS INGREDIENTS
Transportation emergency: Land Science Technologies, 949-366-8000

2. PHYSICAL AND CHEMICAL DATA

Appearance and Odor: White Solid Sheet, Odorless	Solubility in Water: Negligible, below 0.1%
Specific Gravity (Water = 1): 0.90	Percent Volatiles: None
Vapor Pressure (mm Hg): Not Determined	Boiling Point: Degrees: Not Determined
Vapor Density (Air = 1): Not Determined	Melting Point: 320° F
Evaporation Rate: (Butyl Acetate - 1): N/A	
Auto Ignition Temperature: Not Determined	

3. FIRE AND EXPLOSION DATA

Flash Point: N/A
Flammable limits %: Lower N/A Upper N/A
Extinguishing Media: Agents approved for Class A hazards (e.g. foam, steam) or water fog.
Special Fire Fighting Procedures: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: None identified.

4. REACTIVITY DATA

Stability: Stable Conditions to avoid: Keep away from ignition sources (e.g. heat, sparks and open flames).
Incompatibility (materials to avoid): None Identified
Hazardous Decomposition or Byproducts: Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.
Hazardous Polymerization: Will not occur

5. HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: No Skin: No Ingestion: No
Health Hazards (Acute & Coronic): Will not present any health hazards under normal processing conditions.
Eye & Skin Contact: None Identified.
Skin Absorption: Non-toxic.
Inhalation: No significant irritation expected.
Ingestion: No significant health hazards identified.
Carcinogenicity: Unrelated NTP: No IARC: No OSHA Regulated: No

6. PROTECTION AND CONTROL MEASURES

Precautions to be taken in handling and storing: Store away from heat, ignition sources and open flame in accordance with applicable regulations.
Respiratory Protection: Not required under normal process conditions.
Ventilation: Local Exhaust

Protective Gloves: Not required.
Eye Protection: Not required.
Other Protective clothing or equipment: Not required.
Work/Hygienic Practices: Wash hands after handling and before eating.

7. EMERGENCY AND FIRST AID PROCEDURES

In Case of Combustion (550°) Eye Contamination: Flush with large amounts of water for 20 minutes lifting upper and lower lids occasionally. Get medical attention.

Skin contact: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Inhalation: If overexposure occurs, remove individual to fresh air. If breathing stops, administer artificial respiration. Get medical attention.

Ingestion: If a large amount of material is swallowed **DO NOT INDUCE VOMITING**. If vomiting begins lower victim's head in an effort to prevent vomit from entering lungs and get medical attention.

8. SPILL AND DISPOSAL PROCEDURES

Spill is not applicable. Material is normally in solid form.

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