



MATERIAL SAFETY DATA SHEET GemSeal® 010
GemSeal® Sand Mix Coal Tar Emulsion Sealer

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: GemSeal® Sand Mix Coal Tar Emulsion Sealer
Product Use: Sealer.
Manufacturer/Supplier: Bonsal American, Inc.
8201 Arrowridge Blvd.
Charlotte, NC 28273
Phone Number: 800-334-0784 Tech Service 8:00 to 5:00 Eastern, Mon.-Fri.
Emergency Phone: CHEMTREC 800-424-9300
INTERNATIONAL + 01-703-527-3887
Date of Preparation: September 9, 2010

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

- Eye:** May cause eye irritation.
- Skin:** May cause skin irritation.
- Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
- Inhalation:** May cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Tar, coal	8007-45-2	10 - 30
Aluminatesilicate	1327-36-2	1 - 5
Kaolinite	1318-74-7	0.5 - 1.5
Naphthalene	91-20-3	0.5 - 1.5
Titanium dioxide	13463-67-7	0.1 - 1
Benz[a]anthracene	56-55-3	0.1 - 1
Chrysene	218-01-9	0.1 - 1
Benzo[a]pyrene	50-32-8	0.1 - 1



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Indeno[1,2,3-cd]pyrene	193-39-5	0.1 - 1
Benzo[j]fluoranthene	205-82-3	0.1 - 1
Dibenzo[a,h]pyrene	189-64-0	0.1 - 1
Benzo(k)fluoranthene	207-08-9	0.1 - 1
Dibenzo[a,i]pyrene	189-55-9	0.1 - 1

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

- Flammability:** Not flammable by OSHA criteria.
- Means of Extinguishing:**
- Suitable Extinguishing Media:** Treat for surrounding material.
 - Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
 - Sensitivity to Static Discharge:** Not available.
- Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
- Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.



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Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep locked up and out of reach of children. Keep container tightly closed.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Tar, coal	Not available.	Not available.
Aluminatesilicate	Not available.	Not available.
Kaolinite	Not available.	Not available.
Naphthalene	Not available.	Not available.
Titanium dioxide	10 mg/m ³	10 mg/m ³
Benz[a]anthracene	Not available.	Not available.
Chrysene	0.2 mg/m ³	0.2 mg/m ³
Benzo[a]pyrene	Not available.	Not available.
Indeno[1,2,3-cd]pyrene	Not available.	Not available.
Benzo[j]fluoranthene	Not available.	Not available.
Dibenzo[a,h]pyrene	Not available.	Not available.
Benzo(k)fluoranthene	Not available.	Not available.
Dibenzo[a,i]pyrene	Not available.	Not available.

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste-like compound.
Color:	Not available.
Odour:	Not available.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	Not available.
Viscosity:	Not available.



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Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	Not available.
Solubility in Water:	Not available.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

- Stability:** Stable under normal storage conditions.
- Conditions of Reactivity:** Heat. Incompatible materials.
- Incompatible Materials:** None known.
- Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon.
- Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD ₅₀ (oral)	LC ₅₀
Tar, coal	Not available.	Not available.
Aluminatesilicate	Not available.	Not available.
Kaolinite	Not available.	Not available.
Naphthalene	490 mg/kg, rat	> 340 mg/m ³ 1hr, rat
Titanium dioxide	>10000 mg/kg, rat	Not available.
Benz[a]anthracene	Not available.	Not available.
Chrysene	Not available.	Not available.
Benzo[a]pyrene	Not available.	Not available.
Indeno[1,2,3-cd]pyrene	Not available.	Not available.
Benzo[j]fluoranthene	Not available.	Not available.
Dibenzo[a,h]pyrene	Not available.	Not available.
Benzo(k)fluoranthene	Not available.	Not available.
Dibenzo[a,i]pyrene	Not available.	Not available.

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.



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Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Hazardous by OSHA criteria.

Carcinogenicity: Hazardous by OSHA criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen *

Tar, coal	I-1, N-1
Aluminatesilicate	Not listed.
Kaolinite	Not listed.
Naphthalene	G-A4, I-2B, N-2, CP65
Titanium dioxide	G-A4, I-2B
Benz[a]anthracene	G-A2, I-2B, N-2, CP65
Chrysene	G-A3, I-2B, CP65
Benzo[a]pyrene	G-A2, I-1, N-2, CP65
Indeno[1,2,3-cd]pyrene	I-2B, N-2, CP65
Benzo[j]fluoranthene	I-2B, N-2, CP65
Dibenzo[a,h]pyrene	I-2B, N-2, CP65
Benzo(k)fluoranthene	I-2B, N-2, CP65
Dibenzo[a,i]pyrene	I-2B, N-2, CP65

* See Section 15 for more information.

Mutagenicity: Hazardous by OSHA criteria.

Reproductive Effects: Hazardous by OSHA criteria.

Developmental Effects:

Teratogenicity: Hazardous by OSHA criteria.

Embryotoxicity: Hazardous by OSHA criteria.

Respiratory Sensitization: Not hazardous by OSHA criteria.

Skin Sensitization: Not hazardous by OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

Not regulated



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Section 15: REGULATORY INFORMATION

Federal Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Tar, coal	Not listed.	Not listed.	Not listed.	Not listed.
Aluminatesilicate	Not listed.	Not listed.	Not listed.	Not listed.
Kaolinite	Not listed.	Not listed.	Not listed.	Not listed.
Naphthalene	Not listed.	Not listed.	100	313
Titanium dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Benz[a]anthracene	Not listed.	Not listed.	10	313+^
Chrysene	Not listed.	Not listed.	100	313
Benzo[a]pyrene	Not listed.	Not listed.	1	313+^
Indeno[1,2,3-cd]pyrene	Not listed.	Not listed.	100	313+^
Benzo[j]fluoranthene	Not listed.	Not listed.	Not listed.	313+^
Dibenzo[a,h]pyrene	Not listed.	Not listed.	Not listed.	313+^
Benzo(k)fluoranthene	Not listed.	Not listed.	5,000	313+^
Dibenzo[a,i]pyrene	Not listed.	Not listed.	10	313

State Regulations

California Proposition 65:

This product contains chemicals known to the state of California to cause cancer.

Global Inventories

Ingredient	USA TSCA
Tar, coal	Yes.
Aluminatesilicate	Yes.
Kaolinite	Yes.
Naphthalene	Yes.
Titanium dioxide	Yes.
Benz[a]anthracene	Yes.
Chrysene	Yes.
Benzo[a]pyrene	Yes.
Indeno[1,2,3-cd]pyrene	Yes.
Benzo[j]fluoranthene	No.
Dibenzo[a,h]pyrene	No.
Benzo(k)fluoranthene	No.
Dibenzo[a,i]pyrene	No.

HMIS - Hazardous Materials Identification System

Health - 2* Flammability - 0 Physical Hazard - 0

NFPA - National Fire Protection Association:

Health - 2 Fire - 0 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme



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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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Prepared by: Nexreg Compliance Inc.
Phone: (519) 488-5126
www.nexreg.com