



MATERIAL SAFETY DATA SHEET GemSeal® 001  
Gem Seal ® AQS 3

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** GemSeal ® AQS 3  
**Product Use:** Adhesive.  
**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:** March 2, 2011

**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 possible redness and swelling. Symptoms may include redness, drying, and cracking of the skin.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**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. %
Carbon black	1333-86-4	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.



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- 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 inhaled, remove to 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:** Powder, water spray, foam, carbon dioxide.
  - 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:** Soak into absorbent material. Spills of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak. Allow gas to dissipate harmlessly into the atmosphere.
- 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.



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**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Carbon black	3.5 mg/m3	3.5 mg/m3

**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**

<b>Appearance:</b>	Paste-like compound.
<b>Color:</b>	Not available.
<b>Odour:</b>	Not available.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	Not available.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Specific Gravity:</b>	Not available.
<b>Solubility in Water:</b>	Not available.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.



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**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 <sub>50</sub> (oral)	LC <sub>50</sub>
Carbon black	> 15400 mg/kg, rat	Not available.

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.  
**Skin:** May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin.  
**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:** Not hazardous by OSHA criteria.  
**Carcinogenicity:** Hazardous by OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Carbon black	I-2B, CP65

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by OSHA criteria.  
**Reproductive Effects:** Not hazardous by OSHA criteria.  
**Developmental Effects:**  
**Teratogenicity:** Not hazardous by OSHA criteria.  
**Embryotoxicity:** Not 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.



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**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

**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
Carbon black	Not listed.	Not listed.	Not listed.	Not listed.

**State Regulations**

**California Proposition 65:**

This product contains a chemical or chemicals known to the State of California to cause cancer.

**Global Inventories**

Ingredient	USA TSCA
Carbon black	Yes.

**HMIS - Hazardous Materials Identification System**

**Health - 1      Flammability - 0      Physical Hazard - 0**

**NFPA - National Fire Protection Association:**

**Health - 1      Fire - 0      Reactivity - 0**

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

**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.



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**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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