

MATERIAL SAFETY DATA SHEET

Date Prepared: September 26, 2005

1. PRODUCT/COMPANY IDENTIFICATION

Product Name: Amguard® Tack Coat SS-1h Emulsion

Manufacturer's Name & Address:
Bonsal American
8201 Arrowridge Blvd
Charlotte, NC 28273

Emergency Telephone:
800-424-9300 (Chemtrec) or
703-527-3887 (Outside USA)
Telephone Number for Information:
704-525-1621

2. EMERGENCY AND FIRST AID

EMERGENCY INFORMATION: Dark brown to black, thick consistency liquid *Asphalt*: 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 effect. 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. Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced.
. Respirable crystalline quartz has been found to be a suspected carcinogen by NTP, although no exposure is expected through the use of this material. This product has not been tested in long term, chronic exposure tests.

EYES: Immediately flush eyes thoroughly with water. Continue flushing eyes for at least 15 minutes, including under lids to remove all particles. Contact a physician.

SKIN: Wash exposed skin thoroughly with waterless hand cleaner and soap and water. Remove contaminated clothing and do not reuse until thoroughly laundered. If skin irritation develops, seek medical attention

INHALATION: Remove the victim to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial resuscitation, and seek immediate emergency medical attention.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water, and contact a physician immediately.

3. COMPOSITION INFORMATION

DESCRIPTION: Amguard® Blacktop Asphalt Emulsion is a water based colloidal suspension of asphalt and clay. See Section 4. for hazardous Ingredients.

4. HAZARDOUS INGREDIENTS

COMPONENT	OSHA PEL (8-Hour TWA)	ACGIH TLV-TWA (1995-1996)	NIOSH REL (8-Hour TWA)
Asphalt Resin (CAS # 8052-42-4)		5 mg/m ³ (fumes)	
Kaolin (CAS# 1332-58-7)	5 mg/m ³ (dust)	2 mg/m ³ (dust)	10 mg/m ³
Crystalline Silica (CAS # 14808-60-7)	10 mg/m ³ as respirable dust based on free silica content	0.5 mg/m ³ as respirable quartz	0.05 mg/m ³ as respirable quartz dust

5. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Can cause severe irritation, redness, tearing, and blurred vision. Repeated or prolonged exposure may cause permanent eye damage.

SKIN CONTACT: Prolonged or repeated contact can cause moderate irritation, dermatitis.

INHALATION: Prolonged exposure to airborne mist concentrations significantly beyond workplace exposure limits could cause respiratory difficulty.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eyes or Skin: Itching or burning
Inhalation: Dizziness and / or shortness for breath, irritation to lungs and / or nasal passages, nausea.

COMMENT: This product as with any chemical may enhance allergic conditions on certain people. Above results are based on similar product testing. No human exposure data is available. This product contains petroleum solvent. Materials similar to petroleum solvent have been shown to produce skin cancer in laboratory animals following repeated exposure without washing or removal.

CARCINOGENIC: IARC: YES , NTP: YES, ACGIH: YES, OSHA: YES

6. ACCIDENTAL RELEASE MEASURES

If your facility has an "oil or hazardous substance contingency plan", activate the procedure. Take immediate steps to stop and contain the spill. Shut off all sources of ignition. Keep people away. Recover free product, add limestone, earth or other suitable absorbents. Minimize skin contact and avoid breathing vapors. Ventilate confined spaces. Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered sewers, waterways or extensive land areas. Assure conformity with all government regulations. Dispose of in an approved facility, see Section 13, Disposal Considerations.

7. PHYSICAL/CHEMICAL DATA

APPEARANCE/ODOR:	Dark brown, thick consistency, petroleum odor.
BOILING POINT:	>200°F
VAPOR PRESSURE:	Approximately same as water
pH	Approx 6-8
SPECIFIC GRAVITY (H₂O = 1.0):	Slightly greater than 1.0

8. FIRE AND EXPLOSION

FLASH POINT:	>300°F
AUTO IGNITION TEMPERATURE:	>600°F
FLAMMABLE LIMITS	Not established
EXTINGUISHING MEDIA:	CO ₂ , dry chemical extinguishers, sand
HAZARDOUS COMBUSTION PRODUCTS:	H ₂ S, CO, CO ₂ , SOX, and PAH's

9. STABILITY AND REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	None
INCOMPATIBILITY:	Strong Oxidizers
HAZARDOUS DECOMPOSITION:	H ₂ S, CO, CO ₂ , SOX, and PAH's
HAZARDOUS POLYMERIZATION:	None

10. PRECAUTIONS FOR HANDLING, STORAGE AND DISPOSAL

HANDLING AND STORAGE

SPILL: Keep people away. Add sand, earth or other suitable absorbents. Avoid breathing vapors and contact with skin. Ventilate confined spaces; open all windows and doors. Keep product out of sewers and water courses by diking or impounding. Advise authorities if product has entered or may enter sewers, water courses or extensive land areas. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENT REGULATIONS.

DISPOSAL: This product, when discarded or disposed, is not specifically listed as a hazardous waste in federal regulations. This product could be designated as a hazardous waste according to some state regulations. This product could also become a hazardous waste if it is mixed with or comes into contact with a hazardous waste. If such contact occurs, consult 40CFR to determine hazardous waste status.

Transportation, storage, treatment and disposal of this waste must be conducted in accordance with all applicable federal, state and local regulations.

11. TOXICOLOGICAL INFORMATION

Oral – rat LD50 (mg/kg):	No data available
Dermal – rabbit LD50 (mg/kg):	No data available
Eye Irritant – rabbit:	No data available
Skin Irritant – rabbit (24 hr exposure):	No data available

12. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use local exhaust ventilation to control mists or vapors generated when using this product. If ventilation is inadequate, wear approved respiratory equipment.

EYE PROTECTION: OSHA approved glasses, goggles or full face shield. Have eye baths readily available. Do not wear contact lenses.

SKIN PROTECTION: Wear chemical resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. If contact occurs, wash areas contacted by material with soap and water.

13. DISPOSAL CONSIDERATIONS

This product, when discarded or disposed of, is not specifically listed as a hazardous waste in federal regulations. It could be designated as a hazardous waste according to some state regulations. This product could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact occurs, consult 40 CFR, to determine whether it is a hazardous waste.

The transportation, storage, treatment and disposal of this waste must be conducted in accordance with all applicable federal, state and local regulations.

14. TRANSPORTATION DATA

US DOT: Not classified as a hazardous material under HM-181

15. OTHER REGULATORY INFORMATION

Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:	Hazardous chemical
Status under CERCLA/Superfund, 40 CFR 117 and 302:	Not applicable
Hazard Category under SARA (Title III), Sections 311 and 312:	Acute Hazard. Chronic Hazard.
Status under SARA (Title III), Section 313:	Not Applicable
Status under TSCA (as of May 1997):	Not Applicable
Status under the Federal Hazardous Substances Act:	Not applicable
Status under California Proposition 65:	Contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.
Status under Canadian Environmental Protection Act:	Not Determined
Status under Canadian WHMIS:	Class D, Division 2, Subdivision A

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.