

MATERIAL SAFETY DATA SHEET

PALMER ASPHALT COMPANY

Telephone: (201) 339-0855

Manufacturer: Palmer Asphalt Company

Quick Identifier: Bulldog Coal Tar Roof Cement #92AF

Address: 196 West 5th Street, P.O. Box 58
Bayonne, NJ 07002

MSDS Number: #92AF

Issue Date: December 3, 2002

Emergencies: 201-339-0855
8:00 a.m. - 5:00 p.m. EST

Date Prepared: Rev. April 6, 2011

After Hours Call: CHEMTREC:
800-424-9300 (Domestic - No. America)
703-527-3887 (International)

Prepared By: PRI Asphalt Technologies, Inc.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

Common Name (used on label): Bulldog Coal Tar Roof Cement

CAS Number: N/A, a complex mixture **Chemical Name:** Refined coal tar, aromatic solvent, filler & fiber mixture

SECTION 2 - COMPOSITION AND INGREDIENT

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or Greater, Carcinogens 0.1% or Greater)	CAS #	ACGIH TLV	Weight %
Refined Coal Tar Pitch	65996-93-2	n/a	less than 70%
Aromatic Solvent	64742-85-6	n/a	less than 25%
Fillers and Fibers	Mixture	n/a	less than 25%
Additives	Proprietary	n/a	less than 1%

SECTION 3 - HEALTH AND HAZARD IDENTIFICATION

Emergency Overview: Appearance and odor: black, thick consistency paste with an aromatic odor.

Warning Statements: Combustible. Harmful or fatal if swallowed. May cause eye and skin irritation. Carcinogen.

SECTION 4 - PRIMARY ROUTES OF ENTRY AND EMERGENCY FIRST AID PROCEDURES

Eye Contact: Coal tar and aromatic solvent volatiles and mist may cause irritation to the eyes. Eye contact with product will result in irritation, which in the absence of recommended first aid, can result in minor burns to eyes. If eye contact occurs, flush with water or mineral oil for at least 15 minutes and **SEEK MEDICAL ATTENTION**. Inorganic particulates; quartz, etc., may cause mechanical irritation.

Skin: Coal tar and aromatic solvent - exposure causes skin irritation characterized by skin itching, burning, swelling, and redness. Photosensitization of the skin may occur. This irritation has a burning sensation somewhat like sunburn and is accentuated by sunlight. Repeated or prolonged contact may contribute to conditions such as dermatitis, tar warts, and rough skin. If contact occurs, wash affected area with waterless hand cleaner. Remove contaminated clothing/shoes and do not reuse until thoroughly laundered. If irritation persists, **SEEK MEDICAL ATTENTION**.

Inhalation: Coal tar and aromatic solvent volatiles - acute effects caused from overexposure may include coughing, sneezing, and swollen or irritated nasal mucus and sinuses. Repeated and/or prolonged contact to high concentrations may result in toxic effects, such as respiratory difficulties, convulsions, and possible cardiovascular collapse may occur. If inhaled, remove to fresh air. If not breathing, give artificial respiration or oxygen as needed. **SEEK MEDICAL ATTENTION**.

Ingestion: Unlikely route of entry. 3 - 5 oz. may be fatal. Coal tar may cause gastrointestinal tract irritation followed by nausea and vomiting, abdominal discomfort, rapid pulse, etc. In extreme cases, cardiovascular collapse may occur. If ingested, **DO NOT INDUCE VOMITING**. Give water or clear liquids. Consult local Poison Control Center, **IMMEDIATELY!**

SECTION 5 - FIRE AND FIRE-FIGHTING MEASURES

Flash Point: >105°F Tag Closed Cup LEL - 0.5% UEL 6.7%

Hazardous Products of Combustion: H₂S, CO, CO₂, SOX, and PAH's.

Extinguishing Media: Foam CO₂ or dry chemical extinguishers. Use bunker gear and self contained breathing apparatus. There is a potential for containers to rupture violently in fires. Vapors from product may explode if ignited in a confined space.

Unusual Fire and Explosion Hazards: Do not direct water on substance. Water and foam may cause frothing. Treat as a fuel fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

If your facility or operation 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 applicable government regulations.
- Dispose of in an approved facility, see Section 13, Disposal Considerations.

SECTION 7 - HANDLING AND STORAGE

Handling and Storage Precautions: Keep containers cool, dry and away from sources of ignition. Use this product with adequate ventilation. Material is COMBUSTIBLE. Material requires electrical grounding during material transfer process to prevent fire or explosion risk from static accumulation and discharge. All electrical equipment in storage and handling areas should be installed per NFPA requirements. Keep containers tightly closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME, AND OTHER SOURCES OF IGNITION OR STRONG OXIDIZERS.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation: Ventilation may be used to reduce airborne concentrations. If ventilation cannot reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used.

Respiratory Protection: Use NIOSH/MSHA approved respirator protective equipment when airborne exposure limits are exceeded.

Eye Protection: Wear chemical splash goggles (ANSI Z87.1) or safety glasses when working with or transferring this product. DO NOT WEAR CONTACT LENSES IN THE PRESENCE OF THIS MATERIAL UNLESS SPLASH GOGGLES ARE WORN.

Skin Protection: Use chemical resistant gloves, to avoid prolonged or repeated skin contact. Use of protective creams and sunscreen agents are recommended. Protective or "barrier creams" form a film that acts both as a chemical and physical "barrier" between the skin and the contaminant and tends to resist penetration of the contaminant into the pores of the skin. In applying "barrier" creams, be sure the skin is clean and dry. Sunscreen agents filter out most of the ultra-violet rays from the sun.

Airborne Exposure Limits:	OSHA PEL	ACGIH TLV
Coal Tar (coal tar pitch volatiles)	0.2 mg/m ³ as 8-hr TWA	0.2 mg/m ³ as 8-hr TWA
Aromatic Solvent:	100 ppm	100 ppm

Note: All pigments, fillers, fibers, and extenders in this product are totally encapsulated and do not pose a respirable dust hazard during installation and use of this product.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula: Not applicable, complex mixture	Appearance: A black, thick consistency paste
Odor: Aromatic odor	pH: Not applicable
Melting Point, °F: Not applicable.	Density: greater than 8.4
Solubility in Water: Less than 0.5%	
NOTE: <i>These physical data are typical values based on material testing, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.</i>	

SECTION 10 - STABILITY AND REACTIVITY

Stability: _____ unstable <input checked="" type="checkbox"/> stable	Materials to Avoid: Strong oxidizers
Hazardous Decomposition Products: H ₂ S, CO, CO ₂ , SOX, and PAH's	
Hazardous Polymerization: None	

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral - rat LD50 (mg/kg):	No data available.
Dermal - rabbit LD50 (mg/kg):	No data available.
Eye Irritation - rabbit:	No data available.
Skin Irritation - rabbit (24-hour exposure):	No data available.

SECTION 12 - ECOLOGICAL INFORMATION

This product may cause adverse environmental effects if used improperly or released to the environment through a spill. Employ best management practices to prevent this material from entering storm sewer systems, waterways, or otherwise impacting plant and animal species.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in an environmentally safe manner and in accordance with governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

This is "RCRA" regulated hazardous waste (D001 Ignitable per 40 CFR 260.21) and must be disposed in a permitted facility. Containers are hazardous waste if not emptied completely (less than 1 inch of residue).

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

SECTION 14 - TRANSPORTATION DATA

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT: Non-bulk packages are exempt from DOT HM-181 shipping requirements.
CANADIAN: Not determined.

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory: Not determined.

DSL Inventory: Not determined.

WHMIS Classification: Not determined

SARA Hazard Notification:

Hazardous Categories Under Title II Rules (40 CFR 370):	Not applicable.
Section 302 Extremely Hazardous Substances:	Not applicable.
Section 313 Toxic Chemical(s):	Yes

CERCLA Reportable Quantity:	<u>Component</u>	<u>% by Wt.</u>
	Naphthalene	<0.1%
	Phenanthrene	Approximately 1.3%
	PAC (polycyclic aromatic compounds)	<0.1%

CA Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

SECTION 16 - OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA ¹ Rating	3	2	0	
Suggested HMIS ¹ Rating	3	2	0	

¹ Hazard Ratings: least = 0 slight = 1 moderate = 2 high = 3 extreme = 4 Based upon NPCA guidelines.

The information and recommendations contained herein are to the best of PALMER ASPHALT'S knowledge and belief, accurate, and reliable as of the date issued. PALMER ASPHALT does not warrant or guarantee their accuracy or reliability, and PALMER ASPHALT shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the users consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Environmental Information included under Section 12 hereof as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by PALMER ASPHALT COMPANY in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with PALMER ASPHALT'S interpretation of the available data.

For Other Product Information Contact:

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MANUFACTURERS OF BULLDOG AND PRIVATE LABEL COLD-APPLIED COATINGS AND CEMENTS