

# MATERIAL SAFETY DATA SHEET

## PALMER ASPHALT COMPANY

Telephone: (201) 339-0855

**Manufacturer:** Palmer Asphalt Company

**Quick**

**Bulldog Non-Fibered**

**Identifier:**

**Dampproofing #603**

**Address:** 196 West 5<sup>th</sup> Street, P.O. Box 58  
Bayonne, NJ 07002

**MSDS Number:** #603

**Issue Date:** February 1, 1990

**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 Non-Fibered Dampproofing

**CAS Number:** N/A, a complex mixture

**Chemical Name:** N/A

**Chemical Family:** N/A

### SECTION 2 - COMPOSITION AND INGREDIENT

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or Greater, Carcinogens 0.1% or Greater)	CAS #	ACGIH TLV	Weight %
Petroleum Asphalt	8052-42-4	5.0mg/m <sup>3</sup> (fume)	less than 77%
Mineral Spirits	8052-41-3	100 ppm	less than 33%

### SECTION 3 - HEALTH AND HAZARD IDENTIFICATION

**Emergency Overview:** Black liquid. Can cause headache, dizziness, drowsiness, or irritation to the skin, eyes, and respiratory system. If inhaled, leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

**Potential Health Effect/Rate of Entry: Inhalation:** Can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system.

**Eyes:** Can cause irritation.

**Ingestion:** Can cause gastrointestinal irritation.

**Skin:** Can cause irritation.

**Aggravated Medical Conditions:** Pre-existing eye, skin, liver, and respiratory disorders may be aggravated by exposure.

**Acute Health Effects:** See effects described above.

**Chronic Health Effects:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Prolonged or repeated skin contact with these products may result in irritation and dermatitis. Although a direct association between asphalt and cancer or other lung disease has not been established in man, asphalts contain variable amounts of polycyclic aromatic hydrocarbons and other volatiles which have been shown to cause cancer and respiratory damage in animals. Prolonged or repeated exposure to petroleum distillates (Petroleum naphtha, stoddard solvent, or mineral spirits) may cause the defatting, irritation, dermatitis, narcotic and CNS effects described above, liver effects, and jaundice. Kidney and lung effects have been noted in some animals.

**Variability Among Individuals:** Health studies have shown that individual sensitivities vary from person to person. As a precaution, exposure to vapors, liquids, mists, or fumes should be minimized.

**Effects of Overexposure:** (Signs and symptoms of exposure) High vapor concentrations (>1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

**Nature of Hazard and Toxicity Information:** Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis. However, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria. Product contacting the eyes may cause eye irritation. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion may cause mild to severe pulmonary injury and possibly death.

**Pre-existing Medical Conditions Which May be Aggravated by Exposure:** Person with pre-existing central nervous system disease, skin disorders, or chronic respiratory disease should avoid exposure to this product.

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

**Eye Contact:** Petroleum distillate (mineral spirits) and petroleum asphalt can cause severe irritation, redness, tearing, and blurred vision. Flush immediately with running water for 15 minutes, lifting the upper and lower lids occasionally. **Get medical attention immediately.**

**Skin:** Petroleum Distillate and Asphalt - prolonged or repeated contact can cause moderate irritation, defatting dermatitis. Remove contaminated clothing, thoroughly wash exposed area with hand cleaner followed by soap and water. If irritation or redness develops and persists, get medical attention immediately.

**Inhalation:** Mineral Spirits and Aromatic Petroleum Distillate - excessive inhalation of vapors can cause irritation of nose or throat, dizziness, weakness fatigue, nausea, headache, possible unconsciousness and even asphyxiation. Remove individual to fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

**Ingestion:** Aspiration hazard. DO NOT INDUCE VOMIT - transport to hospital immediately. **GET MEDICAL ATTENTION IMMEDIATELY.** Note to Physician - perform gastric lavage in accordance with procedures for ingestion of petroleum products.

## SECTION 5 - FIRE AND FIRE-FIGHTING MEASURES

**Flash Point:** (Minimum) 100°F TCC (Mineral Spirits)  
ASTM D 3143

**Autoignition Temperature:** Greater than 400°F, ASTM E  
659

**National Fire Protection Association (NFPA 704) - Hazard Identification:** Health - 1 Flammability - 2  
Reactivity - 0

**Handling Precautions:** Keep containers tightly closed. 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. All electrical equipment in storage or handling areas should be installed per NFPA requirements.

**Flammable or Explosive Limits:** (Approximate percent by volume in air): Lower (LEL) 0.7% Upper (UEL)  
6%

**Extinguishing Media and Fire Fighting Procedures:** If water fog is ineffective, use carbon dioxide, dry chemical or foam. DO NOT USE WATER.

**Decomposition Products under Fire Conditions:** May form toxic materials, carbon dioxide, carbon monoxide, and nitrogen oxides.

**“Empty” Container Warning:** 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.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Release Response Overview:** Remove sources of ignition immediately. Ventilate to reduce the airborne contaminant concentration below the exposure limit in Section 2 of the MSDS. Absorb spill in sand, earth, or other suitable material. Transfer to appropriate container for disposal. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

## SECTION 7 - HANDLING AND STORAGE

**Handling and Storage Precautions:** Store in closed container. Keep product and vapor away from heat, sparks and flame. Do not store in direct sunlight. Prevent inhalation of vapor, ingestion, and contact with skin and eyes. Keep container closed when not in use. Vapor may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling. To prevent gases, vapors or fumes from migrating into occupied sections of the building, close or cover all openings including windows, doors, and air intakes during and after application until gases, vapors or fumes dissipate. Precautions also apply to emptied containers.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation:** Use only with ventilation sufficient to prevent exceeding recommended exposure limit or build-up of explosive concentrations of vapor in air. Use explosion-proof equipment. No smoking or open lights.

**Respiratory Protection:** If irritation occurs or when the airborne contaminant level (s) exceed the exposure limits indicated on the MSDS, wear appropriate, properly fitted, NIOSH/MSHA approved respirator. Follow respirator manufacturer's directions for respirator use. Use respiratory protection under your company's respiratory protection program, local regulations or OSHA regulations under 29 CFR 1910.134.

**Protective Gloves:** Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**Eye Protection:** Use safety glasses, chemical goggles or face shield.

**Other Protective Equipment:** Use chemical resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

**Work Practices/Engineering Controls:** Keep containers closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. To prevent fire or explosion risk from static accumulations and discharge, effectively ground product transfer system in accordance with NFPA standard for petroleum products.

**Personal Hygiene:** Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

## SECTION 9 - PHYSICAL DATA

The following are approximate or typical values and should not be used for precise design purposes.

<b>Physical State:</b> Black liquid	<b>Odor:</b> Petroleum solvent
<b>Boiling Range:</b> 300°F IBP (ASTM D 86), Mineral Spirits	<b>Vapor Pressure:</b> Approximately 2.9 mm Hg @ 20°C, Mineral Spirits
<b>Specific Gravity:</b> 0.87 - 0.98	<b>Vapor Density:</b> Approximately 4.9 (air = 1.0), Mineral Spirits
<b>Molecular Weight:</b> N/A - complex mixture of hydrocarbons	<b>Percent Volatile by Volume:</b> Less than 40
<b>pH:</b> N/A	<b>Solubility in Water @ 1 ATM and 77°F:</b> Negligible, less than 0.1 (solvent portion)

## SECTION 10 - STABILITY AND REACTIVITY

**Stability:** \_\_\_\_\_ unstable     \_\_\_\_\_  
stable

**Hazardous Polymerization:** \_\_\_\_\_ may occur     \_\_\_\_\_  
will not occur

**Hazardous Decomposition Products:** Hazardous decomposition products include: carbon dioxide, carbon monoxide, and nitrogen oxides.

**Incompatibility (Material to Avoid):** Avoid contact with strong oxidizing agents such as: liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

**Conditions to Avoid:** Keep from heat, sparks, open flame.

## SECTION 11 - TOXICOLOGICAL INFORMATION (REFER TO SECTION 3)

**Carcinogenicity:** The following table indicates whether or not each agency has listed the ingredients as a carcinogen:

Ingredient	ACGIH	IARC	NTP	OSHA
Extracts of steam and air refined bitumens (Mineral Spirits Cutback Asphalt)	No	Yes	No	No
Mineral Spirits	No	No	No	No
Hydrogen Sulfide	No	No	No	No
		<b>LD<sub>50</sub> Oral</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>

	(g/kg)	Dermal (g/kg)	Inhalation (4 hours)
Petroleum Asphalt	Not Available	Not Available	Not Available
Mineral Spirits	>5 (rat)	Not Available	>5.5 g/m <sup>3</sup> (rat)
Hydrogen Sulfide	Not Available	Not Available	444 ppm (rat)

**Petroleum Asphalt:** In March, 1987, the International Agency for Research on Cancer (IARC) classified extracts of steam and air refined bitumens (such as mineral spirits cutback asphalt) as possible carcinogenic to humans (Group 2B). This classification was based on a combined evaluation of published human and animal studies. IARC concluded that the human studies did not provide adequate evidence that extracts of steam and air refined bitumens caused cancer in humans. No epidemiological study of workers exposed only to bitumens is available. The 2B classification was substantially based on experimental animal studies. Some bitumens (asphalt) diluted, dissolved or liquified in solvents (e.g. cutback asphalt) have produced skin cancer in laboratory animals at the site of application. NIOSH recently conducted mouse skin painting studies using selected fractions of asphalt fume condensate. Skin application of the condensate fractions resulted in skin tumors in laboratory mice. Based on skin painting data, IARC regards it prudent to treat a material for which there is sufficient evidence of carcinogenicity in animals as if it is possibly carcinogenic in humans.

## SECTION 12 - ECOLOGICAL INFORMATION

This material may cause harm to animals, plants, or fish.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Characteristic hazardous waste:** RCRA Class D001 - Ignitable Liquid or Solid Waste (RQ = 100.0 lbs.) **EPA Reportable Quantities:** None

Disposal Method: Subject to hazardous waste treatment, storage and disposal requirements under RCRA due to ignitability. Incinerate at EPA-approved facility or dispose of in compliance with federal, state, and local regulations.

## SECTION 14 - TRANSPORTATION DATA

**Transportation Incident Information:** For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

<b>DOT Shipping Name(s):</b> Not Regulated	<b>Hazard Class or Division:</b> N/A
<b>UN/NA Number:</b> N/A	<b>DOT Label:</b> Hazardous
<b>Packing Group:</b> None	<b>Packaging Exceptions:</b> None
<b>Special Provisions:</b> N/A	<b>Bulk Packaging:</b> N/A
<b>Non-bulk Packaging:</b> N/A	<b>RQ:</b> 100 lbs.
<b>EPA Hazardous Substances:</b> Hydrogen Sulfide	<b>Marine Pollutants:</b> White Spirits (Mineral Spirits)
<b>Quantity Limitations:</b> N/A	<b>Hazardous Material Shipping Description:</b> Marine Pollutant (White Spirits)
<b>Freight Description:</b> Asphalt	<b>ERG Number:</b> N/A

## SECTION 15 - REGULATORY INFORMATION

**TSCA Status:** On TSCA Inventory

**NSR Status (Canada):** Each ingredient is on the DSL.

**OSHA Status:** N/A

<u>OSHA Hazardous Components</u>	<u>CAS Number</u>
Asphalt <sup>1</sup>	8052-42-4
Trimethylbenzenes (Mixed isomers)	25551-13-7
Stoddard Solvent (Mineral Spirits)	8052-41-3

<sup>1</sup> Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen.

**SARA Title III:**

## Hazard Categories:

Acute Health: Yes  
 Chronic Health: Yes  
 Fire Hazard: Yes  
 Pressure Hazard: No  
 Reactivity Hazard: No

## Reportable Ingredients:

Sec. 302/304: Hydrogen Sulfide  
 Sec. 313:

This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

**California Proposition 65:** This material contains detectable amounts of some chemicals known to the State of California to cause cancer, birth defects, or other reproductive effects.

**Clean Water Act/Oil Pollution Act:** This product has ingredient classified as an oil under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water or in waterways/sewers which lead to surface water, must be reported to the National Response Center at: (800) 424-8802.

**CERCLA:** This product contains ingredients derived from a fraction of crude oil and is excluded from the spill reporting requirements by CERCLA Section 101 (14) (F). The petroleum exclusion for this product may terminate and an accidental spill may require reporting to the National Response Center at: (800) 424-8802.

**SECTION 16 - OTHER INFORMATION**

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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**P.O. BOX 58**  
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**SINCE 1932**

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