

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 1: Identification

#### 1.1. Product identifier

Product Identity Bulldog Coal Tar Roof Resaturant #93AF  
Alternate Names Bulldog Coal Tar Roof Resaturant #93AF

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet  
Application Method See Technical Data Sheet

#### 1.3. Details of the supplier of the safety data sheet

Company Name Palmer Asphalt Company  
196 West 5th St., P.O. Box 58  
Bayonne, NJ 07002  
Emergency Telephone No. (201) 339-0855  
8:00a.m. - 5:00p.m. EST  
After Hours CHEMTREC:  
(800) - 424-9300 (Domestic – No. America)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Liq. 3 H226  
Skin Sens. 1 H317  
Muta. 1B H340  
Carc. 1A H350  
Repr. 1B H360

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US)



GHS02

GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor  
H317 - May cause an allergic skin reaction  
H340 - May cause genetic defects  
H350 - May cause cancer  
H360 - May damage fertility or the unborn child

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P210 - Keep away from open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing mist, spray, vapors  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective gloves, eye protection, face protection  
P302+P352 - If on skin: Wash with plenty of water  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P321 - Specific treatment (see details on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P370+P378 - In case of fire: Use powder, water spray, foam, carbon dioxide to extinguish  
P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up  
P501 - Dispose of contents/container to in accordance with local, regional, and national regulations.

---

### 2.3. Other hazards

Other hazards not contributing to the classification : Skin irritation may be aggravated by exposure to sunlight/UV rays.

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
pitch, coal tar, high-temp	(CAS No) 65996-93-2	62.57190595	Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).]	(CAS No) 64742-95-6	18.993	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	<= 6.07776	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation: vapor), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
fluoranthene	(CAS No) 206-44-0	2.20881 - 2.576945	Acute Tox. 4 (Oral), H302
phenanthrene	(CAS No) 85-01-8	1.914302 - 2.356064	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
thickening clay	(CAS No) 12174-11-7	2.256	Carc. 2, H351
benzo[a]anthracene	(CAS No) 56-55-3	0.883524 - 1.030778	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
chrysene	(CAS No) 218-01-9	0.809897 - 1.030778	Muta. 2, H341 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
benzo[a]pyrene	(CAS No) 50-32-8	0.809897 - 0.957151	Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1A, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
indeno(1,2,3-cd)pyrene	(CAS No) 193-39-5	0.6037414 - 0.7289073	Carc. 1B, H350
benzo[e]acephenanthrylene	(CAS No) 205-99-2	0.589016 - 0.662643	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cumene	(CAS No) 98-82-8	<= 0.208923	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
dibenz(a,h)anthracene	(CAS No) 53-70-3	0.147254 - 0.1840675	Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1,
dibenzo(a,i)pyrene	(CAS No) 189-55-9	0.147254 - 0.1840675	Carc. 1B, H350
silica	(CAS No) 14808-60-7	< 0.147	Carc. 1A, H350 STOT RE 1,

Full text of H-phrases: see section 16

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Consult a doctor/medical service. Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Irritating to the respiratory tract. Prolonged or repeated breathing of very high vapor concentrations cause euphoria, excitation, and dizziness, headaches, nausea, and vomiting, abdominal pain, fatigue, muscular weakness. Aspiration into the lungs can cause CNS (central nervous system) symptoms and subsequent aspiration into the lungs can cause pulmonary edema and chemical pneumonia depression. Chronic overexposure in high concentrations may produce CNS depression.
- Symptoms/injuries after skin contact : Prolonged or repeated skin contact may cause moderate to severe irritation including itching and redness of the skin, defatting, and/or dermatitis. This product can be absorbed through the skin and produce CNS symptoms. Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts. Photosensitization of the skin may occur. This irritation has a burning sensation somewhat like sunburn and is accentuated by sunlight. Repeat or prolonged contact may contribute to conditions such as dermatitis, tar warts, and rough skin.
- Symptoms/injuries after eye contact : May cause tearing, stinging, redness, irritation, and burns.
- Symptoms/injuries after ingestion : Irritation of the mouth, esophagus, and stomach can develop following ingestion. Symptoms include burning of the mouth, sore throat, vomiting, nausea, dizziness, loss of consciousness. Due to its light viscosity, there is danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapor.
- Explosion hazard : May form flammable/explosive vapor-air mixture.

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing mist, spray, vapors. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools.

Storage conditions : Keep away from ignition sources, Keep container closed when not in use, Keep container tightly closed, Store in a well-ventilated place.

Incompatible materials : Strong bases. Strong acids. Oxidizing agents.

#### 7.3. Specific end use(s)

No additional information available

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Bulldog Coal Tar Roof Resaturant #93AF	
ACGIH	Not applicable
OSHA	Not applicable

benzo[a]pyrene (50-32-8)	
ACGIH	Not applicable
OSHA	Not applicable

benzo[e]acephenanthrylene (205-99-2)	
ACGIH	Not applicable
OSHA	Not applicable

phenanthrene (85-01-8)	
ACGIH	Not applicable
OSHA	Not applicable

dibenz(a,h)anthracene (53-70-3)	
ACGIH	Not applicable
OSHA	Not applicable

benzo[a]anthracene (56-55-3)	
ACGIH	Not applicable

benzo[a]anthracene (56-55-3)	
OSHA	Not applicable

fluoranthene (206-44-0)	
ACGIH	Not applicable
OSHA	Not applicable

dibenzo(a,i)pyrene (189-55-9)	
ACGIH	Not applicable
OSHA	Not applicable

chrysene (218-01-9)	
ACGIH	Not applicable
OSHA	Not applicable

indeno(1,2,3-cd)pyrene (193-39-5)	
ACGIH	Not applicable
OSHA	Not applicable

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



pitch, coal tar, high-temp (65996-93-2)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	Cancer
OSHA	Not applicable	

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified, [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).] (64742-95-6)		
ACGIH	Not applicable	
OSHA	Not applicable	

cumene (98-82-8)		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	50 ppm
ACGIH	Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	50 ppm

1,2,4-trimethylbenzene (95-63-6)		
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	ACGIH STEL (ppm)	25 ppm
OSHA	Not applicable	

silica (14808-60-7)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>
OSHA	Remark (OSHA)	(3) See Table Z-3.

thickening clay (12174-11-7)		
ACGIH	Not applicable	
OSHA	Not applicable	

### 8.2. Exposure controls

Personal protective equipment

: Avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Use of protective creams and sunscreen agents are recommended. Protective creams or "barrier creams" form a film that acts as both a chemical and physical "barrier" between skin and the contaminant and tends to 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 rays from the sun.

Respiratory protection

: Wear appropriate mask.

Other information

: Do not eat, drink or smoke during use.

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: A black, thick consistency liquid.
Color	: Black
Odor	: Tar odor; Aromatic Solvent Odor.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 105 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: > 1.05 g/cm <sup>3</sup>
Solubility	: Water: Solubility in water of component(s) of the mixture : • benzo[a]pyrene: < 0.00001 g/100ml • benzo[e]acephenanthrylene: < 0.00001 g/100ml • naphthalene: 0.0030 g/100ml • phenanthrene: insoluble • pyrene: 0.000012 g/100ml • dibenz(a,h)anthracene: 0.0000025 g/100ml • benzo[a]anthracene: 0.00001 g/100ml • fluoranthene: 0.000026 g/100ml • dibenzo(a,i)pyrene: insoluble • chrysene: 0.0000020 g/100ml • indeno(1,2,3-cd)pyrene: < 0.00001 g/100ml • acenaphthene: insoluble • cumene: 0.005 g/100ml • 1,2,4-trimethylbenzene: 0.0060 g/100ml • silica: insoluble • thickening clay: insoluble • cellulose: < 0.1 g/100ml • chalk: < 0.1 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

phenanthrene (85-01-8)	
LD50 oral rat	1800 mg/kg (Rat)
ATE US (oral)	1800.000 mg/kg bodyweight

fluoranthene (206-44-0)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	3180 mg/kg (Rabbit)
ATE US (oral)	2000.000 mg/kg bodyweight
ATE US (dermal)	3180.000 mg/kg bodyweight

pitch, coal tar, high-temp (65996-93-2)	
LD50 oral rat	> 15000 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

cumene (98-82-8)	
LD50 oral rat	> 2000 mg/kg (Rat; Other; Literature study; 4000 mg/kg bodyweight; Rat; Other; Inconclusive, insufficient data)
LD50 dermal rabbit	10578 mg/kg (Rabbit; Literature study; Other)
LC50 inhalation rat (mg/l)	40 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	8000 ppm/4h (Rat; Literature study)
ATE US (dermal)	10578.000 mg/kg bodyweight
ATE US (gases)	8000.000 ppmv/4h
ATE US (vapors)	40.000 mg/l/4h
ATE US (dust,mist)	40.000 mg/l/4h

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
ATE US (vapors)	18.000 mg/l/4h
ATE US (dust,mist)	18.000 mg/l/4h

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.  
 Germ cell mutagenicity : May cause genetic defects.  
 Carcinogenicity : May cause cancer.

benzo[a]pyrene (50-32-8)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

benzo[e]acephenanthrylene (205-99-2)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

phenanthrene (85-01-8)	
IARC group	3 - Not classifiable

dibenz(a,h)anthracene (53-70-3)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

benzo[a]anthracene (56-55-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

fluoranthene (206-44-0)	
IARC group	3 - Not classifiable

dibenzo(a,i)pyrene (189-55-9)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

chrysene (218-01-9)	
IARC group	2B - Possibly carcinogenic to humans

indeno(1,2,3-cd)pyrene (193-39-5)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

pitch, coal tar, high-temp (65996-93-2)	
IARC group	1 - Carcinogenic to humans

cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



silica (14808-60-7)	
IARC group	1 - Carcinogenic to humans

thickening clay (12174-11-7)	
IARC group	2B - Possibly carcinogenic to humans, 3 - Not classifiable

Reproductive toxicity : May damage fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Irritating to the respiratory tract. Prolonged or repeated breathing of very high vapor concentrations cause euphoria, excitation, and dizziness, headaches, nausea, and vomiting, abdominal pain, fatigue, muscular weakness. Aspiration into the lungs can cause CNS(central nervous system) symptoms and subsequent aspiration into the lungs can cause pulmonary edema and chemical pneumonia depression. Chronic overexposure in high concentrations may produce CNS depression.
Symptoms/injuries after skin contact	: Prolonged or repeated skin contact may cause moderate to severe irritation including itching and redness of the skin, defatting, and/or dermatitis. This product can be absorbed through the skin and produce CNS symptoms. Single prolonged exposure is not likely to result in the product being absorbed through the skin in harmful amounts. Photosensitization of the skin may occur. This irritation has a burning sensation somewhat like sunburn and is accentuated by sunlight. Repeat or prolonged contact may contribute to conditions such as dermatitis, tar warts, and rough skin.
Symptoms/injuries after eye contact	: May cause tearing, stinging, redness, irritation, and burns.
Symptoms/injuries after ingestion	: Irritation of the mouth, esophagus, and stomach can develop following ingestion. Symptoms include burning of the mouth, sore throat, vomiting, nausea, dizziness, loss of consciousness. Due to its light viscosity, there is danger of aspiration into the lungs during vomiting. Aspiration can result in severe lung damage or death.

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : This product may cause adverse environmental effects if used improperly or release 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.

#### 12.2. Persistence and degradability

Bulldog Coal Tar Roof Resaturant #93AF	
Persistence and degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

Bulldog Coal Tar Roof Resaturant #93AF	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer :  
 Effect on the global warming : No known ecological damage caused by this product.  
 Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. This product, as supplied, is regulated as a hazardous waste by the U.S. Environmental Protection Agency(EPA) under Resource Conservation and Recovery Act(RCRA) regulations. If discarded in its purchased form, the product is a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or residue of the product remains classified as a hazardous waste as per 40 CFR 261, Subpart C. State or local regulations may also apply if they are differing from federal regulation. RCRA Hazard Class: D001, Ignitable Hazardous Waste.

Additional information : Handle empty containers with care because residual vapors are flammable.  
 Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT : Not Regulated for transport

#### Additional information

Other information : Not Regulated when shipped in containers <119 gallons [49 CFR 173.120(b)(2)].

ADR : No additional information available

Transport by sea : No additional information available

Air transport : No additional information available

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

benzo[e]acephenanthrylene	CAS No 205-99-2	0.6258%
dibenzo(a,i)pyrene	CAS No 189-55-9	0.1657%
silica	CAS No 14808-60-7	0.1455%
thickening clay	CAS No 12174-11-7	2.256%
xpanded perlite	CAS No 93763-70-3	2.9985%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Benzo[a]pyrene (50-32-8)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb.
--	-------

#### Benzo[b]fluoranthene (205-99-2)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb.
--	-------

#### Phenathrene (85-01-8)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb.
--	----------

#### dibenz(a,h)anthracene (53-70-3)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb.
--	-------

#### benzo[a]anthracene (56-55-3)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb.
--	--------

#### fluoranthene (206-44-0)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb.
--	---------

#### dibenzo(a,i)pyrene (189-55-9)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb.
--	--------

#### chrysene (218-01-9)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb.
--	---------

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb.

<b>cumene(98-82-8)</b>	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb.

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
Listed on United States SARA Section 313	

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC

[DPD]

Not classified

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### 15.2.2. National regulations

#### **Benzo[a]pyrene (50-32-8)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **Benzo[b]fluoranthene (205-99-2)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **dibenz(a,h)anthracene (53-70-3)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **benzo[a]anthracene (56-55-3)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **dibenzo(a,i)pyrene (189-55-9)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **chrysene (218-01-9)**

Listed on IARC (International Agency for Research on Cancer)

#### **indeno(1,2,3-cd)pyrene (193-39-5)**

Listed on IARC (International Agency for Research on Cancer)  
Listed as carcinogen on NTP (National Toxicology Program)

#### **Pitch, coal tar, high temp. (65996-93-2)**

Listed on IARC (International Agency for Research on Cancer)

#### **cumene (98-82-8)**

Listed on IARC (International Agency for Research on Cancer)

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

<b>Benzo[a]pyrene (50-32-8)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.06
<b>Benzo[b]fluoranthene (205-99-2)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.096
<b>dibenz(a,h)anthracene (53-70-3)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.2
<b>benzo[a]anthracene (56-55-3)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.033
<b>dibenzo(a,i)pyrene (189-55-9)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.0050
<b>chrysene(218-01-9)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	0.35
<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



<b>cumene (98-82-8)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

<b>thickening clay (12174-11-7)</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

<b>Benzo[a]pyrene (50-32-8)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>Benzo[b]fluoranthene (205-99-2)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>Phenathrene (85-01-8)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>dibenz(a,h)anthracene (53-70-3)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>benzo[a]anthracene (56-55-3)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>fluoranthene (206-44-0)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>dibenzo(a,i)pyrene (189-55-9)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>chrysene (218-01-9)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>indeno(1,2,3-cd)pyrene (193-39-5)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

<b>Pitch, coal tar, high temp. (65996-93-2)</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List				
U.S. - Pennsylvania - RTK (Right to Know) List				

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

SDS Revision Date: 05/05/2015



**cumene (98-82-8)**

U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - Pennsylvania - RTK (Right to Know) List

**1,2,4-trimethylbenzene (95-63-6)**

U.S. - New Jersey - Right to Know Hazardous Substance List

**SECTION 16: Other information**

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Inhalation: vapor)	Acute toxicity (inhalation: vapor) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitization — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

# Safety Data Sheet

## Bulldog Coal Tar Roof Resaturant #93AF

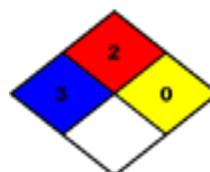
SDS Revision Date: 05/05/2015



NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



---

### HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 2 Moderate Hazard

Physical : 0 Minimal Hazard

Personal Protection : B

TBC SDS US (GHS Hazcom 2012)

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

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the user's responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from PALMER ASPHALT COMPANY.

The Environmental Information included, 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 COMPANY'S interpretation of the available data.