

Safety Data Sheet

Bulldog TSC Thermoplastic Surfacing Compound #96

SDS Revision Date: 05/05/2015



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity Bulldog TSC Thermoplastic Surfacing Compound #96
Alternate Names Bulldog TSC Thermoplastic Surfacing Compound #96

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)
(703) - 527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. H226
3
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



GHS08

Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

H226 - Flammable liquid and vapor
H340 - May cause genetic defects
H350 - May cause cancer
H360 - May damage fertility or the unborn child

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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 equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P280 - Wear protective gloves, protective clothing, eye protection
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
P370+P378 - In case of fire: Use carbon dioxide (CO₂), foam, dry extinguishing powder, Do not use water 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

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
asphaltic bitumen, not cut back	(CAS No) 8052-42-4	54.4 - 57.6	Carc. 2, H351
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	25.9 - 31.9	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6	<= 10.208	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
pitch, coal tar, high-temp	(CAS No) 65996-93-2	1.444745 - 7.223725	Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360
thickening clay	(CAS No) 12174-11-7	2.115 - 3.29	Carc. 2, H351
cumene	(CAS No) 98-82-8	<= 0.3509	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
silica	(CAS No) 14808-60-7	0.135 - 0.21	Carc. 1A, H350 STOT RE 1, H372

Full text of H-phrases: see section 16

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. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
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 Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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ACGIH	Not applicable
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 ³)	245 mg/m ³
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	

asphaltic bitumen, not cut back (8052-42-4)	
ACGIH	Not applicable
OSHA	Not applicable

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

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

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

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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. Do not wear contact lenses without the use of splash goggles.

Skin and body protection

Wear suitable protective clothing. 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.

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	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	≈ 0.96 g/cm ³

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Solubility

Water: Solubility in water of component(s) of the mixture :

• cumene: 0.005 g/100ml • 1,2,4-trimethylbenzene: 0.0060 g/100ml • 1,3-butadiene/styrene,polymer: insoluble • silica: insoluble • thickening clay: insoluble • 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: 0.00000025 g/100ml • benzo[a]anthracene: 0.00001 g/100ml • fluoranthene: 0.000026 g/100ml • dibenzo(a,i)pyrene: insoluble • chrysene: 0.00000020 g/100ml • indeno(1,2,3-cd)pyrene: < 0.00001 g/100ml • acenaphthene: insoluble

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is stable.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

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
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
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)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	May cause genetic defects.
Carcinogenicity	May cause cancer.
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
asphaltic bitumen, not cut back (8052-42-4)	
IARC group	2A - Probably carcinogenic to humans, 2B - Possibly carcinogenic to humans
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
pitch, coal tar, high-temp (65996-93-2)	
IARC group	1 - Carcinogenic to humans
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.

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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

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Persistence and degradability	May cause long-term adverse effects in the environment.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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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 different from federal regulation. RCRA Hazard Class: D001, Ignitable Hazardous Waste. Dispose of contents/container to local/national/international regulations. Avoid release to the environment.

Ecology - waste materials

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

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SECTION 15: Regulatory information

15.1. US Federal regulations

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Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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:

silica	CAS No 14808-60-7	0.153%
thickening clay	CAS No 12174-11-7	2.397%
benzo[e]acephenanthrylene	CAS No 205-99-2	0.0147%
dibenzo(a,i)pyrene	CAS No 189-55-9	0.0039%

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.

cumene (98-82-8)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
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1,2,4-trimethylbenzene (95-63-6)

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

15.2.2. National regulations

cumene (98-82-8)

Listed on IARC (International Agency for Research on Cancer)

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

Listed on IARC (International Agency for Research on Cancer)

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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

cumene (98-82-8)

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	

thickening clay (12174-11-7)

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	

cumene (98-82-8)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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1,2,4-trimethylbenzene (95-63-6)

U.S. - New Jersey - Right to Know Hazardous Substance List
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asphaltic bitumen, not cut back (8052-42-4)

U.S. - New Jersey - Right to Know Hazardous Substance List
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Pitch, coal tar, high temp. (65996-93-2)

U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation: vapor) Category 4
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
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H340	May cause 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
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

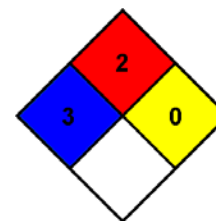
3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

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

C

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 THE BREWER 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.