



Weldon Materials, Inc.

WELDON TACK COAT

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name
CAS No.
Trade Name(s)

Weldon Tack Coat
Mixture
Mixture
Road Paving Tack Coat

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)
Uses Advised Against

Asphalt Pavement Resurfacing
None.

Details of the supplier of the safety data sheet

Company Identification

Weldon Materials
141 Central Ave
Westfield, NJ 07090

Telephone

908-233-4444

Emergency telephone number

Emergency Phone No.

Not classified as dangerous for supply/use. Please contact the supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) / GHS Classification

Flam. Liq. 3; STOT RE 1; STOT SE 3

Label elements

Hazard Symbol



DANGER

Signal Word(s)

Hazard Statement(s)

Flammable liquid and vapour.

Causes damage to organs through prolonged or repeated exposure: Central Nervous System, Route: Inhalation
May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Take precautionary measures against static discharge.

Use only non-sparking tools.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wash hands and exposed skin after use.



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Other hazards

Do not breathe dust/fume/gas/mist/vapours/spray.

Skin contact may increase susceptibility to sunburn.

Additional Information

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	% wt.	CAS No.
Petroleum asphalt / bitumen [^]	75 - 90	8052-42-4
Stoddard Solvent / Mineral Spirits	10 - 25	8052-41-3

[^]Contains: <0.05% of 3 - 7 ring Polycyclic Aromatic Hydrocarbons (PAHs).

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Not normally required. Move person to fresh air. Apply artificial respiration if necessary. If symptoms persist, obtain medical attention.

Skin Contact

Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

Ingestion

Not normally required. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

None known

Indication of any immediate medical attention and special treatment needed

None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray.
None anticipated.

Special hazards arising from the substance or mixture

Combustion causes toxic fumes. Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes.
Environmental precautions	Not normally required.
Methods and material for containment and cleaning up	Not normally required.
Reference to other sections	None
Additional Information	None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves. Wash hands and exposed skin after use. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.
Conditions for safe storage, including any incompatibilities	
-Storage temperature	Store at temperatures not exceeding the product's flash point.
-Incompatible materials	Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA) *	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Asphalt fume	-----	-----	0.5 mg/m3 ⁽¹⁾	-----	-----	See below
Aliphatic hydrocarbons (Stoddard Solvent)	8052-41-3	500 ppm	100 ppm	-----	-----	-----

⁽¹⁾ Inhalable benzene-soluble fraction; [^]Suspected Human Carcinogen; *Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method NIOSH 5042 (Asphalt Fume), NIOSH 1550 (Naphthas)

Exposure controls

Appropriate engineering controls Use only outdoors or in a well-ventilated area.

Personal protection equipment

Eye/face protection

The following to be used as necessary: Safety Glasses



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber)





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Respiratory protection



In case of insufficient ventilation, wear suitable respiratory equipment. A half-face cartridge respirator equipped with organic vapor cartridges may be sufficient. Check with protective equipment manufacturer's data.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Do not discharge waste and/or cleaning water via public sewer system. Ensure waste is collected and contained.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color	Dark brown / Black
Odor	Asphalt / Bitumen
Odor Threshold (ppm)	Not available.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	149 - 177 (300 - 350 °F)
Flash Point (°C)	40 (104 °F)
Evaporation Rate	0.2 @ 77 °F (butyl acetate = 1)
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapor pressure (Pascal)	3
Vapor Density (Air=1)	> 4
Density (g/ml)	0.8 - 1.08
Solubility (Water)	Negligible
Solubility (Other)	Not known
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not available
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	May react violently with: Strong oxidizing agents
Conditions to avoid	Incompatible materials
Incompatible materials	Oxidizers
Hazardous decomposition product(s)	Combustion causes toxic fumes. Combustion products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects



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Petroleum asphalt / bitumen (CAS No. 8052-42-4):

Acute toxicity	LD50 (rat): >5000 mg/kg bw LD50 (dermal): >2000 mg/kg bw LC50 (inhalation, fume): >94.4 mg/m ³
Irritation/Corrosivity	Not to be expected
Sensitization	May cause an allergic skin reaction. Contains: aliphatic carboxylic acids and aliphatic polyamides.
Repeated dose toxicity	NOAEL(rat): 28 mg/m ³ LOAEL (rat): 149 mg/m ³
Carcinogenicity	Not to be expected at typical road paving temperatures.

NTP	IARC	ACGIH	OSHA
No.	Yes.*	No.	No.

Mutagenicity	Not to be expected.
Reproductive toxicity	Not to be expected.

Other information * IARC (2013, volume 103) identifies that "occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans (Group 2B)." However, classification as a carcinogen under OSHA 29 CFR 1910.1200 is not warranted given the absence of positive cancer findings in human epidemiological studies and in cancer studies with laboratory animals when exposed dermally or by inhalation to asphalt products or fume condensates that are typical of road paving applications. IARC (2013, volume 103) also identifies that "occupational exposures to oxidized bitumens and their emissions during roofing are probably carcinogenic to humans (Group 2A)." Roofing shingles, which are considered an article under OSHA 29 CFR 1910.1200, are sometimes recycled into road paving asphalt mix. Emissions from oxidized bitumen, e.g., from shingles, at road paving temperatures are not expected to be qualitatively different than emissions from straight-run bitumens, and therefore would not warrant a carcinogen classification under OSHA 29 CFR 1910.1200.

Aliphatic Hydrocarbon (Stoddard Type) (CAS No. 8052-41-3) - By analogy with similar materials:

Acute toxicity (calculated / estimated)	Oral: LD50 >5000 mg/kg-bw Dermal: LD50 >2000 mg/kg-bw Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.
Irritation/Corrosivity	Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	Causes damage to organs through prolonged or repeated exposure: Central Nervous System: Oral: NOEAL 750 mg/kg Dermal: NOEAL 0.5 ml/kg bw Inhalation: NOAEL ≥1000 mg/m ³
Carcinogenicity	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	Not to be expected
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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Petroleum asphalt / bitumen (CAS No. 8052-42-4):

Short term

LL50 (48 hour): >1000 mg/l (Fish)
LL50 (48 hour): >1000 mg/L (Aquatic Invertebrates)
EL50 (48 hour): >1000 mg/L (Aquatic Plants)

Long Term

No data

Stoddard Solvent (CAS# 8042-41-3):

Short term

LL50 (96 hour): 3.5 mg/L (*Chaetogammarus marinus*)
ErC50 (96 hour): 1.2 mg/l (*Pseudokirchnerella subcapitata*)

Long Term

NOEL (21 days): 0.28 mg/L (*Daphnia magna*)
NOEC (96 hour): 0.16 mg/L (*Pseudokirchnerella subcapitata*)

Persistence and degradability

The product is poorly biodegradable.

Bioaccumulative potential

The product has low potential for bioaccumulation.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport <u>(U.S. DOT) **</u>	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	NA 1993	UN 1999	UN 1999
Proper Shipping Name	Combustible liquid, n.o.s. (Petroleum Distillate)	Tars, liquid	Tars, liquid
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

** Reclassified as a "combustible liquid" according to 49 CFR 173.120 (b)(2). Not regulated for ground shipments in the U.S. in non-bulk packaging (<119 gallons).

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.



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Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	-----	-----	-----

SECTION 16: OTHER INFORMATION

Additional Information

The following sections contain revisions or new statements: 1-16.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. The manufacturer gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. The manufacturer accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.