

COLD MIX ASPHALT SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Cold Mix Asphalt

Chemical Name Mixture CAS No. Mixture

Trade Name(s) Asphalt repair, Permanent Cold Mix, Temporary Cold Patch

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

Identified Use(s) Road Paving Asphalt

Uses Advised Against None.

Details of the supplier of the safety data sheet

Company Identification Dunn Construction Company, Inc.

> 3905 Messer Airport Hwy. Birmingham, AL 35222

205-592-3866 Telephone

Emergency telephone number

Not classified as dangerous for supply/use. Please contact the Emergency Phone No.

supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) / GHS Classification Eye Irrit. 2; Skin Sens. 1b

Label elements

Hazard Symbol



Signal Word(s) **WARNING**

Hazard Statement(s) Causes serious eye irritation.

May cause an allergic skin reaction.

Precautionary Statement(s) Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

Contaminated work clothing should not be allowed out of the workplace.

Other hazards Skin contact may increase susceptibility to sunburn.

Mechanical disruption (e.g., milling, cutting, chipping) of cured asphalt

pavement may release crystalline silica dust from the aggregate.

Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	% wt.	CAS No.
Aggregate (crushed stone, sand, gravel, slag)	> 90	Various
Petroluem asphalt / bitumen^	< 5	8052-42-4
Cold mix additives	< 5	Various

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

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. Please see Section 8 of SDS for more details.

- Contains: <0.1% airborne crystalline silica (inherent in aggregate) and <0.1% hydrogen sulfide.

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.

Not normally required. Do not induce vomiting. Do not give anything by mouth Ingestion

to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both

acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention

and special treatment needed

None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Additional Information

Avoid contact with skin and eyes.

Not normally required.

Methods and material for containment and cleaning up

Reference to other sections

Allow product to cool/solidify and pick up as a solid.

None None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store at temperatures not exceeding the product's flash point.

-Incompatible materials Strong oxidizing agents.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA) *	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Asphalt fume			0.5 mg/m3 ^(l)			See below
Crystalline Silica (respirable particulate)		10 mg/m³ %SiO ₂ + 2	0.025 mg/m3 ^			See below

⁽I) 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 7500 (Crystalline Silica)

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)

The following to be used as necessary: Leather or thick textile gloves.



Respiratory protection

Not normally required.



Thermal hazards

Use gloves with insulation for thermal protection, when needed. Do not discharge waste and/or cleaning water via public sewer system. Ensure waste is collected and contained.

Environmental Exposure Controls

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Solid

Color. Dark brown / Black
Odor Asphalt / Bitumen
Odor Threshold (ppm) Not available.

Not available. pH (Value) Melting Point (°C) / Freezing Point (°C) Not available. Boiling point/boiling range (°C): > 371 (>700 °F) Flash Point (°C) > 232 (> 450 °F) **Evaporation Rate** Not available. Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Not applicable. Not determined. Vapor pressure (Pascal) Not determined.

Vapor Density (Air=1)Not determDensity (g/ml)2.2 - 2.7Solubility (Water)Negligible

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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

Acute toxicity LD50 (rat): >5000 mg/kg bw

LD50 (dermal): >2000 mg/kg bw LC50 (inhalation, fume): >94.4 mg/m³

Irritation/Corrosivity Causes serious eye irritation.

Sensitization May cause an allergic skin reaction.

Repeated dose toxicity Not to be expected.

Carcinogenicity Not to be expected when used as a cold-mix product.

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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

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

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Persistence and degradability Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessment Other adverse effects The product is poorly biodegradable.
The product has low potential for bioaccumulation.
The product has low mobility in soil.
Not classified as PBT or vPvB.
None known.

SECTION 13	- DISDUSAL	CONSIDERATIO	PIN
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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 INFORMATIO	SECTION	14: TRAN	ISPORT I	NFORM <i>A</i>	ATIOI
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Ground or Water Domestic Voyage (DOT): Not classified as dangerous for transport.

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.

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

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

SARA 311/312 - Hazard Categories: None

☐ 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.

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