

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Base Asphalt Pavement Mix

Chemical Name Mixture CAS No. Mixture

Trade Name(s) Petroleum Asphalt / Road Paving Asphalt / Hot Mix Asphalt /

Blacktop / Warm Mix Asphalt

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 Lakeside Industries, Inc., and affiliated companies Bayview Transit

Mix, Inc. and Whatcom Builders, Inc. Risk Management & Safety Department

PO Box 7016

Issaquah, WA 98027

Telephone (425) 313-2600

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 Not classified as dangerous for supply/use.

Label elements

Hazard SymbolNoneSignal Word(s)NoneHazard Statement(s)NonePrecautionary Statement(s)None

Other hazards May cause eye irritation.

Prolonged exposure to fumes without adequate ventilation to fumes may

cause upper respiratory irritation (nose & throat) . Skin contact may increase susceptibility to sunburn.

Poisonous hydrogen sulfide gas can accumulate in the head-space of

containers of certain asphalt products.

Mechanical disruption (e.g., milling, cutting, chipping) of cured asphalt pavement may release crystalline silica dust from the aggregate.

Additional Information Avoid prolonged exposure to (dust/fume/gas/mist/vapors/spray) without

adequate ventilation.

As necessary, Wear protective gloves/protective clothing/eye

protection/face protection.

Wash hands and exposed skin after use.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	% wt.	CAS No.
Aggregate (crushed stone, sand, gravel, slag)	70 - 97	Various
Petroleum asphalt / bitumen	3 - 7	8052-42-4
Reclaimed Asphalt Pavement (RAP)	0 - 35	Mixture
Reclaimed Asphalt Shingles (RAS)	0 - 5	Mixture
Polymers and Natural Rubbers	< 0.5	Various
Process oils (inherent in refined petroleum asphalt)	< 0.1	Various
Anti-strip or other amine-based additives	< 0.1	Various
Warm-mix additives	< 0.1	Various

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.
- Hydrogen sulfide gas can accumulate in the head space of containers of certain asphalt products.
- Heated product releases asphalt fume.

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.

 $\label{eq:most_entropy} \textbf{Most important symptoms and effects, both}$

acute and delayed

None known

Indication of any immediate medical attention

and special treatment needed

None known

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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

Methods and material for containment and cleaning up

Reference to other sections Additional Information Avoid contact with skin and eyes.

Not normally required.

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

None None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handlingAvoid 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.

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)		50 mg/m³* %SiO ₂ + 2	0.025 mg/m3 ^			See below
Hydrogen sulfide	7783-06-4		1 ppm	20 ppm ceiling	5 ppm	50 ppm peak

⁽I) Inhalable benzene-soluble fraction; \Suspected Human Carcinogen; \Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; \Refer to DSHA 29 CFR 1926.55; \Refer to

time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method NIOSH 5042 (Asphalt Fume), NIOSH 7500 (Crystalline Silica),

Electrochemical sensor (hydrogen sulfide).

Exposure controls

Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Personal protection equipment

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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



NIOSH approved respiratory protection. Air-purifying respirator with combination organic vapor cartridge / particulate filter may be sufficient. Check with protective equipment manufacturer's data.

In case of inadequate ventilation wear respiratory protection. Use

Thermal hazards Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls None

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.
pH (Value) Not available.

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation Rate

Flammability (solid, gas)

Explosive Limit Ranges

Vapor pressure (Pascal)

Not available.

Not applicable.

Not applicable.

Not determined.

Vapor pressure (Pascal)
Vapor Density (Air=1)
Density (g/ml)
Solubility (Water)
Solubility (Other)
Not determined.
2.2 - 2.7
Negligible
Not known

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt) @ 40°C

Explosive properties

Not available.

Not available.

Not available.

Not explosive.

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,

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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 May cause irritation to skin, eyes and respiratory system.

Sensitization Not to be expected

Repeated dose toxicity NOAEL(rat): 28 mg/m³

LOAEL (rat): 149 mg/m³

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.

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

Persistence and degradability The product is poorly biodegradable.

Bioaccumulative potential The product has low potential for bioaccumulation.

Mobility in soilThe product has low mobility in soil.Results of PBT and vPvB assessmentNot classified as PBT or vPvB.

Other adverse effects None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state, or national

regulations. Consult this asphalt producer, permitted waste disposal contractor or the local authority for advice on waste disposal or

recycling options

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

Ground or Water Domestic Voyage (DOT): Not regulated when transported below 240°C (464 °F).

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
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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: 8,11.

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