Willets Point Asphalt Corp

Hot Mix Asphalt

SAFETY DATA SHEET

Revision #1: 01/03/2023

1. IDENTIFICATION

PRODUCT NAME: Hot Mix Asphalt

SYNONYMS: Blacktop; Asphaltic Concrete; Bituminous Concrete; Tarmac

RECOMMENDED USE: Road Paving

USE RESTRICTIONS: None.

SUPPLIER: Willets Pt Asphalt Corp **ADDRESS:** 32-02 College Pt Blvd Flushing, NY 11354

TELEPHONE: 718-358-2222 **FAX:** 718-886-8723

EMERGENCY CONTACT: Not classified as dangerous for supply/use. Please contact the supplier above

during normal business hours.

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

Contact with hot ASPHALT PAVING MATERIALS causes

skin burns. May cause eye irritation.

Fumes may cause upper respiratory irritation (nose & throat).

Skin contact may increase susceptibility to sunburn.

Poisonous hydrogen sulfide gas can accumulate in the head-

spaceof 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 breathing dust/fume/gas/mist/vapors/spray.

As necessary, Wear protective gloves/protective clothing/eye

protection/face protection.

Wash hands and exposed skin after use.

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 - 25	Mixture
Reclaimed Asphalt Shingles (RAS)	0 - 10	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

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

Additional Information - None

4. FIRST AID MEASURES

Description of	first aid	measures
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Inhalation Not normally required. Move person to fresh air. Apply artificial

respiration if necessary. If symptoms persist, obtain medical

Skin Contact Causes burns. Immediately cool skin where asphalt binder has

adhered to skin. Allow asphalt binder which remains on the skin to fall off naturally. DO NOT REMOVE. If problem persist or

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 to an unconscious person. Get medical

Most important symptoms and effects,

both acute and delayed

Ingestion

None known

Indication of any immediate medical

attention and special treatment needed

None known

5. FIRE FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

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

Safety Data Sheet: Hot Mix Asphalt Revision #1: 01/03/2023

Special hazards arising from the substance $% \left\{ 1\right\} =\left\{ 1\right\} \left\{ 1\right\} =\left\{ 1\right\} \left\{ 1\right\} \left\{$

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.

Avoid contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency

procedures

Environmental precautionsNot normally required.

Methods and material for containment and cleaning up

Allow product to cool/solidify and pick

up as a solid.

Reference to other sectionsNoneAdditional InformationNone.

7. HANDLING & 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

-Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA) *	TLV (ACGIH)	PEL (OSHA)	TLV	Note:
Asphalt fume			0.5 mg/m3 (I)			See below
Crystalline Silica (respirable particulate)		10 mg/m3	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; 8hr TWA = 8 hour 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 Personal protective equipment Use only outdoors or in a well-ventilated area.

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 In case of inadequate ventilation wear respiratory protection. Use NIOSH



approved respiratory protection. Air-purifying respirator with combination organic vapor cartridge / particulate filter may be sufficient.

Check with protective equipment manufacturer's data.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure ControlsDo not discharge waste and/or cleaning water via public sewer system.

Ensure waste is collected and contained.

9. PHYSICAL & 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) Not available. Boiling point/boiling range (°C): $> 371 (>700 \, ^{\circ}\text{F})$ Flash Point (°C) $> 232 (> 450 \, ^{\circ}\text{F})$ **Evaporation Rate** Not available. Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Not applicable. Vapor pressure (Pascal) Not determined. Vapor Density (Air=1) Not determined. 2.2 - 2.7Density (g/ml)

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.

10. STABILITY & REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Revision #1: 01/03/2023

Possibility of hazardous reactionsMay react violently with: Strong oxidizing agents

Conditions to avoid Incompatible materials

Incompatible materials Oxidizers

Hazardous decomposition product(s) Combustion causes toxic fumes. Combustion products: Carbonmonoxide,

Carbon dioxide, Nitrogen oxides, Sulfur oxides

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.	2B*	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 shingle 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.

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 degradabilityThe product is poorly biodegradable.

Bioaccumulative potentialThe product has low potential for bioaccumulation.

Mobility in soil The product has low mobility in soil.

Safety Data Sheet: Hot Mix Asphalt

Revision #1: 01/27/2023

Results of PBT and vPvB assessment Other adverse effects Not classified as PBT or vPvB.

None known.

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.

14. TRANSPORT INFORMATION

Ground or Water Domestic Voyage

Not regulated when transported below 240°C (464

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

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l l Fire	1 Sudden Release	1 Reactivity	□Immediate (acute)	I (Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None		

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

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

16. OTHER INFORMATION

Additional Information

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

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