David A. Bramble, Inc. *General Contractors*

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Safety Data Sheet

1. IDENTIFICATION

Material Name: **Hot Mix Asphalt** **Effective Date:** Nov 01, 2019

Material Identifiers: Hot Mix Asphalt, HMA, Hot Mix Asphalt Concrete, Blacktop, Bituminous concrete, Superpave, Stone Matrix Asphalt (SMA), Rubber modified hot mix asphalt

Company: David A. Bramble, Inc.
705 Morgnec Rd
P.O. Box 419
Chestertown, MD 21620

Telephone Number: (410) 778-3023 (8am to 4pm EST)

Emergency
Telephone Number: (888) 758-1013 (8am to 4pm EST)

Use: Asphalt pavement repair

2. HAZARDS IDENTICATION

Physical Hazards:	Not classified
Health Hazards:	Carcinogenicity-Category 1A Serious eye damage/eye irritation – Category 1 Specific target organ toxicity, repeated exposure- Category 2
Signal Word:	DANGER
Hazard Statements:	Causes severe eye damage. May Cause Cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash hands, forearms, and other exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, and eye protection. If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center or doctor if you feel unwell. Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local, regional, national, and international regulations.

Pictograms:

Other Hazards: This product is a mixture or liquid asphalt and aggregates. Aggregates may contain varing amounts of Respirable Crystalline Silica which may cause cancer. Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP; ACGIH states that it is a suspected cause of cancer. Other forms of RCS (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes. Release of silica should only occur if product is hammered, ground, or otherwise broken/damaged.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	% by weight (approx.)	OSHA PEL -TWA (MG/M3)	ACGIH TLV-TWA (MG/M3)
Aggregate	various	90-95	NA	NA
Asphalt	8052-42-4	< 8 *	NA	0.5
Quartz	14808-60-7	varies	{[10/(%SiO2+2)]}(R); {[30/(%SiO2+3)]}(T)	0.05(R)

Note: HMA is a mixture of various aggregates, sand and asphalt cement. It may also contain small amounts of additives (e.g. anti-striping agents, RAP, shingles, fibers, glass, plastic ceramics, and other recycled materials.)

4. FIRST-AID MEASURES

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. Removal of solidified molten material from the eyes requires medical assistance.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists. Cool skin rapidly with cold water after contact with molten product. Removal of solidified molten material from skin requires medical assistance.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Regular foam, carbon dioxide, dry chemical

Hazardous Products of Combustion: May form carbon dioxide and carbon monoxide, hydrogen sulfide, sulfur oxides, various hydrocarbons.

Fire and Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively.

Special protective equipment and precautions for firefighters: Wear a self-contained breathing apparatus SCBA with a full-face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of the SDS.

6. ACCIDENTAL RELEASE MEASURES

General: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel. Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

Disposal: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. If melted: allow liquid to solidify before taking it up. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered.

7. HANDLING AND STORAGE

General: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with eyes, skin and clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/mist/vapors/spray. Handle in accordance with good industrial hygiene and safety procedures.

Storage Conditions: Comply with applicable regulations. Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible products: Strong acids, strong bases, strong oxidizers. Chlorates. Reducing agents. When molten: water.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment (PPE):

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Eye Protection: Chemical safety goggles.

Skin Protection: Wear protective gloves. Wear suitable protective clothing including Chemically resistant materials and fabrics. When working with hot material, use suitable thermally protective clothing.

General Hygiene: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid/Semi-Solid	**Evaporation Rate:**	NA
Appearance:	Black	**pH (in water):**	NA
Odor:	Asphalt / Petroleum	**Melting Point:**	NA
Vapor Pressure:	NA	**Boiling Point:**	NA
Vapor Density:	NA	**Freezing Point:**	NA
Specific Gravity:	2.3-2.7 @77 F	**Viscosity:**	NA
Volatility:	NA	**Solubility (in water):**	NA

10. STABILITY AND REACTIVITY

Stability: Stable under recommended handling and storage conditions (see section 7).

Incompatibility with various substances: Avoid contact with strong oxidizing agents and water.

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition Products: May form carbon dioxide, carbon monoxide, hydrogen sulfide, sulfur oxides, various hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified.

Persistence and Degradability: Not established.

Bio accumulative Potential: Not established.

Mobility in Soil: No additional information available

Other Adverse Effects: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

14. TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOT: Not regulated for transport

15. REGULATORYINFORMATION

SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard
Delayed (chronic) health hazard

Asphalt (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
U.S. - California - Proposition 65 - Carcinogens List: WARNING: This product contains chemicals known to the State of California to cause cancer.
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

16. OTHER INFORMATION

Abbreviations:

>	Greater than	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
CAS No	Chemical Abstract Service number	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	NTP	National Toxicology Program
		OSHA	Occupational Safety and Health Administration
CFR	Code for Federal Regulations	PEL	Permissible Exposure Limit
CL	Ceiling Limit	pH	Negative log of hydrogen ion
DOT	U.S. Department of Transportation	PPE	Personal Protective Equipment
EST	Eastern Standard Time	R	Respirable Particulate
HEPA	High-Efficiency Particulate Air	RCRA	Resource Conservation and Recovery Act
HMIS	Hazardous Materials Identification System	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	T	Total Particulate
		TDG	Transportation of Dangerous Goods
LC_{50}	Lethal Concentration	TLV	Threshold Limit Value

LD_{50}	Lethal Dose	TWA	Time Weighted Average (8 hour)
mg/m^3	Milligrams per cubic meter	WHMIS	Workplace Hazardous Materials Information System
MSHA	Mine Safety and Health Administration		

This SDS (Sections1-16) was revised on Nov 01, 2019.

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END OF SDS