

Hot-Mix Asphalt

1. Identification

Product Name / Product Identifier	Hot Mix Asphalt
Other Means of Identification:	Asphalt Paving, Hot Mix Paving, Blacktop Asphalt Concrete (all types) May contain reclaim asphalt paving
Recommended use:	Hot Mix Asphalt paving used for road surfaces and surface for parking lots. Construction Materials.
Recommended restrictions:	None known
Manufacturer / Contact Info:	HAC Materials, Ltd. 6367 Hopkins Road Corpus Christi, Texas 78409 (361) 289-6062 or (361) 853-2535
Emergency Phone Number (24 hours)	Chemtrec (800) 424-9300 Customer no. 1001111

2. Hazards Identification

OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Physical Hazards	SERIOUS EYE DAMAGE/EYE IRRITATION Category 1 CARCINOGENICITY CATEGORY 1A SPECIFIC TARGET ORGAN TOXICITY (REPEAT EXPOSURE) CATEGORY 2

HAZARD PICTOGRAM:



SIGNAL WORD:

DANGER

HAZARD STATEMENTS:	May cause cancer by inhalation. Causes damage to organs (lungs/respiratory system) through prolonged or repeated exposure by inhalation. May cause severe eye damage when hot.
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Precautionary Statement:

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Do not breath dust, fumes or vapors. Use only outdoors and in well ventilated areas.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use proper PPE as directed, such as gloves, safety glasses, protective clothing for the type of exposure.

Response:

If exposed or concerned, immediately call a physician or the Poison Control Center. Get medical advice or attention if needed.
IF SWALLOWED: RINSE MOUTH - DO NOT INDUCE VOMITING.
If on skin, remove immediately, rinse with water for several minutes. If irritation occurs, get medical help.
IF INHALED: Remove to fresh air and keep in rest position until comfortable breathing.
IF IN EYES: Rinse with water for several minutes. Seek medical attention.

Storage:

Store in well ventilated area.

Disposal:

Dispose of contents/container in accordance with all local, regional, national, and international regulations.

Supplemental Information:

This material when hot can cause severe thermal burns. Fumes may be irritating to the eye, nose and throat. This product is a mixture of liquid asphalt and aggregates. The aggregates contain some quantities of quartz (crystalline silica), When this material is sawed or cut it can create respirable crystalline silica which may cause cancer. See IARC, NTP, ACGIH information on silica cancer causes.

3. Composition / information on ingredients

Ingredient Name	% of material	CAS Number
Aggregate crushed stone	>90 %	Varies / Misxture
Asphalt Cement Liquid	<10 %	8052-42-4
May contain in asphalt:		
Crystalline Silica (Quartz)	>1 %	14808-60-7
Hydrogen Sulfide	>1 %	7783-06-4
Additives	<1%	Mixture

4. First Aid Measures

INHALATION:

Move person to fresh air. If lung irritation persists contact a physician. If not breathing start rescue breathing CPR, seek emergency attention.

EYE CONTACT:

Flush eyes with clean water for 15 minutes. Hold eyelids open for complete flush.

SKIN:

Immediately flush skin in cool water for 15 minutes. Ice or cool pack may be applied to burn area. Get attention if needed or if material burn is severe. Clean skin with soap and water to remove materials.

INGESTION:

If swallowed, do not induce vomiting. If possible drink cool water. Do not give anything by mouth if the person may become unconscious.

MOST IMPORTANT SYMPTOMS, ACUTE and DELAYED:

Vapor may cause moderate to severe irritation to upper respiratory tract. Prolonged inhalation may cause chronic health effects. Breathing the dust from this material over prolonged periods can cause lung damage from Silicosis.

INDICATION OF IMMEDIATE MEDICAL ATTENTION - SPECIAL TREATMENT IF NECESSARY

Inhalation exposure to hydrogen sulfide may result in pulmonary congestion. Patients may be predisposed to pneumonia during convalescence, and should be kept under observation. Prolonged breathing of the dust from this material may cause silicosis which can be progressive. Symptoms may be delayed.

5. Fire Fighting Measures

- Suitable extinguishing media: Non Flammable. Use fire-extinguishing media appropriate for surrounding materials. Class B hazards. Water Fog to cool.
- Unsuitable extinguishing media: Avoid straight water stream. No other known.
- Specific hazards arising from chemical: No unusual fire hazards.
- High temp decomposition of product: Can create hydrogen sulfide. Avoid breathing possible fumes. Use SCBA full face protective equipment.
- Special Instructions: Adding water to hot product during a fire may cause steam release explosion. Cool material using water fog.

6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

If hot product is spilled use caution not to breath vapors until cool. Use personal protective equipment to protect from the hot material. When cold and broken or sawed the material can release silica.

METHODS AND MATERIALS FOR CONTAINMENT, CLEAN UP AND ENVIRONMENTAL CONCERNS:

Contain spilled material with sand or other absorbent. Materials can be properly handled and disposed of when cool. Notify property authorities depending on environment.

7. Handling and Storage

PRECAUTIONS:

Follow all PPE suggestions. Ensure everyone involved reads the SDS for hazard protection. Contact with this product can cause burns. This product is designed to be used outdoors in open areas where risk of confined spaces do not exist. If sawing, grinding or crushing use caution to avoid breathing silica dust that can be created. Wet cutting and crushing is suggested.

Do not use open flames, welding equipment or cutting equipment on containers until cleaned. This material can catch fire because of the asphalt residue.

Storage should be in silos that are specifically designed for this material.

8. Exposure controls / personal protection

Ingredient name	Exposure limits
Particulates not otherwise classified (dust) (CAS SEQ250)	ACGIH TLV (United States, 3/2012) TWA: 3 mg/m ³ . Form: Respirable particles (2) TWA: 10 mg/m ³ . Form: Inhalable particles (2) OSHA PEL (United States, 6/2010) PEL: 5 mg/m ³ . Form: Respirable fraction PEL: 15 mg/m ³ . Form: Total dust (4) TWA: 5 mg/m ³ . Form: Respirable fraction (1) TWA: 15 mg/m ³ . Form: Total dust (1, 4, 5)
Asphalt Cement (CAS # 8052-42-4)	ACGIH TLV (United States, 3/2013) TWA: 0.5 mg/m ³ . Form: as benzene-soluble aerosol

Crystalline Silica (Quartz) (CAS 14808-60-7)	OSHA PEL (United States, 9/2017) TWA: 0.3 mg/m ³ . Form: Total dust (1,2) TWA: 0.05 mg/m ³ . Form: Respirable (1,2,3) ACGIH TLV (United States, 3/2012) TWA: 0.025 mg/m ³ . Form: Respirable fraction NIOSH REL (United States, 6/2009) TWA: 0.05 mg/m ³ . Form: Respirable dust
Hydrogen Sulfide	OSHA PEL (United States, 6/2010) C: 20 ppm (Ceiling) ACGIH TLV (United States, 3/2012) TWA: 1 ppm STEL: 5 ppm NIOSH REL (United States, 6/2009) REL: 10 ppm (Ceiling)

Exposure Guidelines:

Workers should always work upwind of the heated material when possible. This material should only be used in well ventilated areas such as outside. When crushing, sawing, drilling or milling this material, the workers should use water to control the dust caused by these operations. This dust will contain silica. Exposure to this silica dust should be carefully monitored to ensure compliance with OSHA regulations on exposure.

Engineering Controls:

Ventilation should be maintained at all times.

Eye Protection:

When handling this material safety glasses incorporating side shields should be used at a minimum.

Skin Protection:

Gloves designed for the temperature you are working with along with long sleeve shirts, long pants and sturdy work boots should be worn. This will protect the skin from hot materials.

Respiratory Protection:

When using this material outside in typical conditions, protection should not be required. When working in confined areas NIOSH approved respiratory protection is required. Follow all OSHA regulations for respirator use and design.

9. Physical and Chemical Properties

Appearance: Black, viscous, granular.

Odor: Strong petroleum smell.

Melting Point: >150F

Boiling Point: <840F

Flash Point: >400F

Vapor Density: >1.5 (air = 1)

Auto Ignition Temp: 900F

Specific Gravity 2.0 - 2.5

Evaporation Rate: Not Applicable

Vapor Pressure: Not Applicable

PH: Not Applicable

Viscosity: Not Applicable

Solubility in water: Not Applicable

Decomposition Temperature: Not Applicable

Flammability Solid: Not Applicable

Odor Threshold: Not Applicable

10. Stability and Reactivity

Reactivity:	Product is stable and non-reactive during normal use.
Chemical Stability:	Product is stable and non-reactive during normal use.
Possibility of Hazardous reactions:	Under normal use no known reactions or conditions exist.
Conditions to avoid:	Avoid high temperatures, flames, sparks, welding and other flames.
Incompatible Materials.	Strong oxidizers may react with hydrocarbons.
Hazardous Decomposition:	Thermal decomposition may release carbon monoxide, carbon dioxide, hydrogen sulfide, nitrogen dioxide, ozone and other organic and inorganic compounds.

11. Toxicological Information

Irritation Corrosion

Skin: Direct contact with hot material can cause burns.

Eyes: Direct contact with hot material can cause burns. Abrasive irritant through direct contact.

Inhalation: Irritation from vapor. Silica dust can cause cancer and other hazards to the body. OSHA Silica precautions should be taken when cutting, grinding or milling.

Ingestion: Not likely to occur because of the product form.

Aspiration Hazard: If ingested could cause an aspiration hazard.

Reproductive Toxicity: Not known to cause a hazard.

Carcinogenicity: Silica dust is a known human carcinogen and is classified by ACGIH as a suspected human carcinogen.

12. Ecological Information

Ecotoxicity: Discharging of this material in its production state is not expected to harm aquatic organisms.

Persistence and degradability: Not Applicable

Bioaccumulative Potential: Not Applicable

Mobility in soils: Not Applicable

Other adverse effects: No other adverse effects are anticipated.

13. Disposal Considerations

Disposal Methods:	Product is designed to cool and harden. When cool it is not a hazard to dispose of the product.
Hazardous waste:	this product is not a reportable hazardous waste.
Contaminated packaging:	Not applicable.

14. Transportation Information

UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
transport hazard class:	Not applicable.
Packaging group:	Not applicable.
Marine Pollutant:	Not applicable.
Additional information:	Product is shipped hot.

15. Regulatory Information

U.S.Federal regulations:

OSHA Hazard Communications Standard:	This product is a Hazardous Chemical as defined in the OSHA 29CFR1910.1200 Standard.
TSCA Section 12(b) Export Notification:	Not regulated.
CERCLA Hazardous Substance List:	Possible regulated under 40CFr3025.4.
Clean Air Section, Hazardous Air Pollutants:	Not regulated.
Clean Air Act Section 112 Accidental Release:	Not regulated under 40CFR68.130.

16. Other information

HAC Materials, Ltd. and its affiliates believe the information contained herein is accurate; however we make no guarantee with respect to such accuracy and assumes no liability whatsoever in connection with the use of any information contained herein by any party. The information should not be used as advise for compliance with federal, state, or local laws. All users of this material should research all laws regarding the specific use of this material for their specific situation.

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