



# SAFETY DATA SHEET

## ASPHALT REPAIR BLACKTOP PRODUCTS

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### 1. IDENTIFICATION

Product	Codes (Unit Weight):	Manufacturing Location (s)
Eco-Friendly All-Weather Blacktop Patch	102306 (60lb);	USA: Stormville, NY Ravena, NY Canada: None
Eco-Friendly HP Blacktop Repair Mix	102205 (60lb);	
Eco-Friendly Plate Patch	102606 (60lb)	
Bulk Cold Mix	111115 (2000lb) ; 111116 (2000lb) ;	
HP Blacktop Repair Mix – Bulk	111118 (2000lb) ; 111119 (1000 kg)	
Plate Patch – Bulk	111130 (2000lb)	

**Synonyms:** Cold Mix, Blacktop Patch, Asphalt Cold Patch, Eco-Friendly Blacktop, Eco-Friendly Blacktop Repair, Regular Cold Patch

**Product Description:** Package Pavement Blacktop is a ready to use VOC Free, cold patching material used for repairing asphalt driveways, parking areas and potholes.




### 2. HAZARD(S) IDENTIFICATION

Health	
<b>GHS CLASSIFICATIONS (US)</b> <ul style="list-style-type: none"> <li>• Acute toxicity (Oral): 4</li> <li>• Acute toxicity (Dermal): 4</li> <li>• Acute toxicity (Inhalation): 4</li> <li>• Skin Irritation: 2</li> <li>• Serious Eye Damage: 2A</li> <li>• Skin Sensitization: 1B</li> <li>• Carcinogenicity: 2A</li> <li>• Specific Target Organ Toxicity – Single Exposure: 3</li> <li>• Specific Target Organ Toxicity - Repeat Exposure: 2</li> </ul>	
<b>GHS Label Symbols:</b>	
<b>SKIN IRRITANT</b>	<b>POTENTIAL CARCINOGEN</b>



<b>Hazard Statements: WARNING!</b>	<b>Prevention Statements CAUTION:</b>
<ul style="list-style-type: none"> <li>• May cause skin irritation.</li> <li>• May be harmful if swallowed.</li> <li>• May cause an allergic skin reaction.</li> <li>• May cause respiratory irritation.</li> <li>• May cause cancer through chronic inhalation (silica)</li> <li>• May contain crystalline silica</li> <li>• Less than 50% of the mixture consists of ingredients of unknown acute toxicity.</li> </ul>	<ul style="list-style-type: none"> <li>• Do not eat, drink or use tobacco when using this product.</li> <li>• Do not expose product to unprotected skin</li> <li>• Wear proper PPE protection, protective gloves, eye/face protection</li> <li>• Use only in a well-ventilated area.</li> <li>• Store container tightly closed in cool/well-ventilated place.</li> <li>• Wash exposed areas of body thoroughly after handling.</li> </ul>

**Protective Gear Required (PPE):**

		
<b>Eye Protection</b>	<b>Rubber Safety Gloves</b>	<b>Rubber Boots</b>

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS no.	% Composition	Other Identifiers
Crushed Limestone	1317-65-3	80-95%	Coarse Aggregate, Crushed Stone
Silica Sand (Quartz)	14808-60-7	1-10%	Fine Aggregate, Concrete Sand
Petroleum Asphalt	8052-42-4	1-10%	Pulverized Fuel Ash
Vegetable Oil Mist	68956-68-3	0.1 – 10%	Glyceridic oils

**4. FIRST AID MEASURES**

**Primary Route(s) of Exposure:**

- Inhalation
- Eye Contact
- Skin Contact
- Ingestion

**Primary Health Hazards:** Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis, ingestion will potentially cause stomach obstructions and irritation.

**Inhalation:** Dust caused by breaking, cutting or grinding hardened or set- in-place asphalt product may create airborne dust which may cause irritation to the throat and lungs. If breathing is difficult, remove person to a well ventilated area. Seek medical advice if the condition persists.

**Eye Contact:** Cutting, crushing or grinding hardened asphalt will release dust which may create irritation if in contact with eyes. Symptoms may include moderate eye irritation, redness and itching, tearing and blurred vision. Immediately flush out eye and eyelid with plenty of water for 15 minutes or more until the irritant is removed. Call a physician if irritation persists.

**Skin Contact:** Cold Patch asphalt may cause dry skin, discomfort, irritation and dermatitis. In case of contact thoroughly wash the affected area with pH balanced soap. Always wash work clothing before reuse.

**Ingestion –** Do not chew or ingest cold patch asphalt. If swallowed DO NOT induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

**Medical Conditions Generally Aggravated by Exposure:** Individuals with pre-existing skin conditions can be aggravated by exposure:

**Acute Health Hazards:** Dust may be a mechanical irritant to the eyes.

**Chronic Health Hazards:** Risk of injury depends on duration and level of exposure.

**5. FIRE-FIGHTING MEASURES**

**Flash Point:** >260 deg. C.

**Flammable Limits:**

LEL: ND

UEL: ND

**Extinguishing Media:** Dry Chemical, Foam or Carbon Dioxide. Water or foam may cause frothing.

**Auto-Ignition Temperature:** ND

**Special Firefighting Procedures:** Self-contained Breathing apparatus required for enclosed areas. Avoid breathing vapors for long periods.

**Unusual Fire and Explosion Hazards:** Do not store with strong oxidants. Heating or burning may cause the creation of carbon monoxide, carbon dioxide, and hydrocarbons.

**6. ACCIDENTAL RELEASE MEASURES**

**Spillage Measures:** If spilled, remove from bodies of water. Shovel into containers for reuse or disposal in accordance with local, state and federal guidelines. Recover and recycle as much as possible.

**Waste Disposal Methods:** Follow all applicable local, state and federal regulations for disposal.

**7. HANDLING AND STORAGE**

Do not store with strong oxidizers. Store away from heat sources and open flames. Product must be stored above freezing to remain workable.

**KEEP OUT OF REACH OF CHILDREN**

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Name	CAS no.	Agency	Exposure Limits	Comments
Aggregate	Various	n/a	n/a	
Crushed Limestone	1317-65-3	OSHA OSHA NIOSH NIOSH	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup> REL-TWA 10 mg/m <sup>3</sup> REL-TWA 5 mg/m <sup>3</sup>	Total dust Respirable fraction Total dust Respirable fraction
Crystalline Silica (as alpha-Quartz)	14808-60-7	OSHA OSHA  ACGIH	PEL-TWA [30 mg/m <sup>3</sup> ]/% SiO <sub>2</sub> + 2 PEL-TWA [10 mg/m <sup>3</sup> ]/% SiO <sub>2</sub> + 2 or [250 mppcf]/ % SiO <sub>2</sub> + 5 TLV-TWA 0.025R mg/m <sup>3</sup>	Total dust Respirable dust Respirable dust Respirable fraction of aerosol
Petroleum Asphalt	8052-42-4	ACGIH NIOSH	TLV-TWA 0.5 mg/m <sup>3</sup> REL-STEL 5 mg/m <sup>3</sup>	Inhalable fraction NIOSH Ceiling
Vegetable Oil Mists	68956-68-3	OSHA	PEL-TWA 15 mg/m <sup>3</sup> PEL-TWA 5 mg/m <sup>3</sup>	Total Dust Respirable fraction

**Primary Health Hazards:** Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis. Airborne dust can cause immediate or delayed irritation or inflammation proper protective gear and handling procedures will limit exposure levels.

**Personal Protective Equipment (PPE):** Wear a dust mask when breaking, crushing or grinding of this product. Wear ANSI approved glasses or Safety goggles when handling both the packaging and when applying the product.. (Wearing contact lenses when using polymeric sand is not recommended.) The use of waterproof gloves is highly recommended to prevent exposure to skin and body.

**Respiratory Protection:** Not applicable when applying this product but may be applicable when breaking, crushing or grinding hardened product. In case of exposure to high levels of airborne dust, a NIOSH/MSHA approved dust respirator is recommended (when allowable exposure limits may be exceeded).



**Other Protective Clothing or Equipment:** Protective outer garments including long sleeve shirts, workpants, boots and gloves should be used to prevent skin or eye exposure when applying this product.

**Engineering Controls:** Use only in well-ventilated areas.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin in accordance with above good practices. Wash thoroughly after handling and before eating or drinking. Following work, workers should shower with soap and water and clean clothing before reuse.

**Environmental Exposure:** This product does not present any particular risk for the environment. Refer to applicable national, state and local regulations.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Mobile granular solid, opaque black in appearance
Boiling Point (at 760mm Hg):	No Data Available
Vapor Pressure (mm Hg):	N/A
Vapor Density (air = 1):	>1
Flash Point	>260 deg. C. (500 deg. F) Cleveland Open Cup
Specific Gravity (water = 1):	2.694 AASHTO – T209
Melting Point:	Not Determined
Evaporation Rate (Butyl acetate = 1):	N/A
Solubility in Water (% by weight):	Insoluble
pH:	N/A
Freezing Point:	N/A

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Avoid contact with water and keep dry until used to preserve product utility.

**Incompatibility:** Strong oxidizers.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition or By-Products:** If exposed to fire this product may emit hazardous compounds include carbon monoxide, carbon dioxide and oxides of nitrogen and sulfur, as well as, traces of incompletely burned carbon compounds may be produced.

## 11. TOXICOLOGICAL INFORMATION

### Petroleum Based Asphalts:

In 2011, the IARC (International Agency for Research on Cancer) classified exposure to straight-run bitumen's and their emissions during road paving has been classified by IARC as Group 2B, possibly carcinogenic to humans. Although there is some indication of increased lung and skin cancer rates in animals and humans, epidemiological studies have been inconclusive.

**Routes of Exposure:** Inhalation, Skin Contact, Eye Contact and Ingestion

- **Inhalation:** Exposure to dust from this product is generally related to the breaking, cutting or grinding set-in-place or hardened asphalt. In these cases the product may cause slight irritation. Prolonged or frequent exposure to dust contact can cause irritation to the dermatitis
- **Skin Contact:** Skin contact of this product may cause slight irritation. Prolonged or frequent contact can cause irritation to the dermatitis.
- **Eye Contact:** If in contact with the eyes, can cause irritation to the eyelids, cornea (conjunctivitis) and lesions to the eyeball.
- **Ingestion:** If swallowed it can cause burns to the mouth, esophagus and stomach.



**Toxicity to Animals:**

LD50: Not Available

LC50: Not Available

**Chronic Effects on Humans:** Condition aggravated by exposure includes eye disease, skin disorders and chronic respiratory conditions.

**Special Remarks on Toxicity:** Not Available

## 12. ECOLOGICAL INFORMATION

**Eco-Toxicity:** This material may be toxic to fish and other aquatic life and may impede growth of vegetation.

**BOD<sub>5</sub> and COD:** Not available.

**Products of Biodegradation:** Not available.

**Potential to Bioaccumulate:** Not available

**Toxicity of the Products of Biodegradation:** Not available.

**Special remarks on the Products of Biodegradation:** Not available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Use hardened or unused asphalt as a base for application of new product or Dispose of unusable material via licensed waste disposal company in accordance with local, state, and federal guidelines.

## 14. TRANSPORT INFORMATION

**DOT/UN:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

Not regulated as a hazardous waste material by the U.S. Department of Transportation and TDG Regulations.

## 15. OTHER REGULATORY INFORMATION

**US OSHA 29CFR 1910.1200:** Considered hazardous under this regulation and should be included in the employer's hazard communication program.

**SARA (Title III) Sections 311 and 312:** Not determined.

**SARA (Title III) Section 313:** Not subject to reporting requirements.

**TSCA (May 1997):** All components are on the TSCA inventory list.

**Federal Hazardous Substance Act:** Is a hazardous substance subject to statutes promulgated under the subject act.

**Canadian Environmental Protection Act:** Not Listed.

**Canadian WHMIS:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulation and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

**16. ADDITIONAL INFORMATION****GHS Safety Standards Guide:**

The new UN Global Harmonization System (GHS) of safety and hazard identification standards were adopted by OSHA in 2012 and will be implemented in June 1<sup>st</sup> 2015. This includes standardized pictograms to identify the hazards that are present in manufactured, blended or distributed products for use in the workplace. The GHS standards feature a new numerical system to identify the levels of toxicity of the product.

The risk levels associated with this product are listed in section #2 of the 16 sections included in this guide. The new numbers are arranged on a scale of 1-5 with 1 being a severe hazard and 5 presenting minimal hazard when used under the product's instruction and when in compliance with applicable, local, state and federal guidelines.

- 1 = Severe Hazard**
- 2 = Serious Hazard**
- 3 = Moderate Hazard**
- 4 = Slight Hazard**
- 5 = Minimal Hazard**

*Health Hazards are further defined in categories for all routes of exposure including, pulmonary (inhalation), oral (mouth), dermal (skin), and ocular (eyes). These Hazard Categories and the corresponding warning classifications are:*

- Acute Toxicity (Oral) - [1,2,3,4,5]**
- Acute Toxicity (Dermal) - [1,2,3,4,5]**
- Acute Toxicity (Inhalation) - [1,2,3,4,5]**
- Skin Corrosion/Irritant - [1A , 1B - Corrosion 2,3 - Irritant]**
- Eye Corrosion/Irritant - [1, 2A, 2B]**
- Respirator Sensitization - [1 , 2A, 2B]**
- Skin Sensitization - [1A ,1B, 2]**
- Germ Cell Mutagenicity - [1A, 1B, 2]**
- Carcinogenicity - [1A ,1B, 2]**
- Reproductive Toxicity - Fertility - [1A ,1B, 2]**
- Reproductive Toxicity - Development - [1A ,1B, 2]**
- Specific Target Organ Toxicity - Single Exposure [1, 2, 3]**
- Specific Target Organ Toxicity - Repeat Exposure [1, 2]**

*For more information visit the OSHA website: [www.osha.gov](http://www.osha.gov)*

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**User's Responsibility:** This information is compiled from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their application and to follow safety precautions as may be necessary.

**Revision R9**, supersedes all previous revisions.

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