

**Section 1. Product and Company Identification**

Product Name(s): Green Patch Cold Mix Asphalt
Synonyms: Cold Mix/Pothole Patching Material

Product Code Number:

Product Uses: Green Patch Cold Mix Asphalt is a VOC-Free high performance cold patch for use in repairing asphalt pavement, parking lots, and driveways.

Manufacturing Information:

Cold Mix Manufacturing
 120-30 26th Avenue
 Flushing, NY 11354
 Contact: Mike Milano

General Information Telephone Number:

718-463-1444

Website: www.greenpatch.com

Emergency Telephone Numbers:

718-463-1444 (8 a.m. – 5 p.m. EST)




718-463-6292 Fax

845-216-1926 After Hours

Section 2. Composition Information on Ingredients

Ingredient	CAS Number	Percent by Weight
Aggregate (Dolomite)	7000-29-5	40 – 60
Reclaimed Asphalt Pavement (RAP)	Various	40 – 60
Asphalt (as fume)	8052-42-4	<10
Crystalline Silica (as quartz) (naturally in Aggregate & RAP)	14808-60-7	>1
Fatty Acid Alkyl esters	Various	<4

Section 3. Hazard Information

	WARNING	 Eye Protection	 Gloves
	<p>Toxic – Harmful by inhalation. (Contains crystalline silica) Irritant: Causes eye, skin and inhalation irritation.</p> <p>Use proper engineering controls, work practices, and personal protective equipment.</p> <p>Read MSDS for details.</p>		

EMERGENCY OVERVIEW

Green Patch is a blend of aggregates coated with an asphalt mixture designed for use and application at ambient temperatures. The product should not be heated. If the product is heated, the release of toxic hydrogen sulfide (H₂S) may occur. Content with heated coated aggregate may result in thermal burns.

Primary Routes of Entry

- Skin and/or eye contact.

Eye Contact

- Airborne particulates may cause immediate or delayed irritation or inflammation. Eyes may become red or itchy. Eye contact requires immediate first aid.

Skin Contact

- May cause skin irritation and dermatitis upon prolonged contact.

Ingestion (not a probable route of exposure)

- If ingestion occurs, DO NOT induce vomiting. Ingestion may cause stomach distress, nausea, or vomiting. If conscious, drink water. Seek medical attention or contact Poison Control Center immediately.

Inhalation (not a probable route of exposure)

- Move to fresh air. Seek medical attention.

Chronic Carcinogenicity Effects

- This product or one of its ingredients present at 0.1% or more, are listed as a carcinogen by NTP, ARC, or OSHA. **See Section 11 (Toxicological Information)** for details.



Section 4. First Aid Measures

Eyes

- In case of contact, hold eyelids open and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin

- Remove contaminated clothing and shoes. Wash affected areas with soap and water, or a mild detergent. Get medical attention if symptoms develop.

Inhalation

- Remove person from the contaminated area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Ingestion

- Get medical attention immediately. DO NOT INDUCE VOMITING. If conscious, have person drink plenty of water.

Section 5. Fire Fighting Measures

- **Flash Point:** Not Applicable (N/A)
- **Auto Ignition Temperatures:** N/A
- **Lower Explosive Limit:** N/A
- **Upper Explosive Limit:** N/A
- **General Hazard:** A granulated solid with a partially combustible coating, avoid breathing fumes.
- **Fire and Explosion Hazards:** During a fire, carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur, hydrogen sulfide and irritating and/or toxic gases may be generated.
- **Extinguishing Median:** Carbon dioxide, water spray (with caution) or dry chemical.
- **Fire Fighting Instructions:** A SCBA and full protection gear is recommended to limit exposure to combustion products when fighting any fire.

Section 6. Accident Release Measures

- Collect and dispose in accordance with applicable regulations.
- Avoid release to waterways and sewers.
- **General:** Use a shovel to scoop up and place in suitable sturdy container for recovery or disposal. Wear appropriate protection equipment described in **Section 8**.

Section 7. Handling and Storage

General

- Keep containers/bags tightly closed. Store in cool, dry, well-ventilated areas. DO NOT expose to heat, open flames, strong oxidizers or sources of ignition.

Usage

- Use only with adequate ventilation.
- Avoid contact with skin, eyes and clothing. Thoroughly wash hands and exposed skin if exposed.

Clothing

- Remove and launder clothing that is soiled.



Section 8. Exposure Control and Personal Protection

Engineering Controls

- Use with adequate and local exhaust ventilation.

Personal Protection Equipment (PPE)

- Eye and Fire Protection; ANSI approved glasses, safety goggles or fire shield recommended.

Skin Protection

- Use protective gloves and apron to prevent skin contact.

Foot Protection

- Wear ANSI approved safety footwear.

Respiratory Protection

- None normally required. Respiratory protection equipment use may be required for secondary operation, such as cutting or operations causing dust or fumes. The level of respiratory protection required should be based on the evaluation of chemical exposure by a health or safety professional.

Occupational Exposure Limits for Individual Ingredients (if applicable)

Ingredient	OSHA PEL – TWA	ACGIH TLV-TWA
Asphalt (fume)	5 mg/m ³	0.5mg/m ³ Benzene soluble aerosol
Silica (quartz)	10 mg/m ³ /%SiO ₂ +2 Respirable dust	0.25 mg/m ³

Section 9. Physical and Chemical Properties

Appearance:	Black, granulated solid	Evaporation Rate:	N/A
Odor:	Slight petroleum odor	pH:	N/A
Physical State:	Granulated solid	Boiling Point:	N/A
Vapor Pressure:	N/A	Freezing Point:	N/A
Vapor Density:	N/A	Solubility:	Not Soluble
Specific Gravity:	>2.3	Volatile Point:	< 0.2%

Section 10. Stability and Reactivity

Stability:	Stable. Avoid contact with heat, sources of ignition and open flame.
Incompatibility:	May be incompatible with strong acids, bases and oxidizing agents.
Hazardous Polymerization:	Not expected to occur.
Hazardous Decomposition:	Not expected to occur if handled and stored properly.
Condition to Avoid:	Sources of ignition, open flame and strong oxidizing agents.

Section 11. Toxicological Information

Chronic/Carcinogenicity

- IARC classifies the below listed ingredients as carcinogenic to humans
- Silica, quartz (Group 1)
- Asphalt as Fume (Group 3A)
- ACGIH (A2) NTP (Group 2) have designated silica, quartz as suspected human carcinogens

Miscellaneous Toxicological Information

- Testing has not been conducted on this product. Available data for individual ingredients are noted below.

Component	OSHA-PEL-TWA (mg/m ²)	ACGIH TLV-TWA (mg/m ²)	LD ₅₀ (rat, oral)	LC ₅₀
Asphalt (fume)	N/A	0.5	N/A	N/A
Crystalline Silica (quartz)	[(10) / (% SiO ₂ +2)] (R); [(30) / (%SiO+2)] (T)	0.025 (R)	N/A	N/A
Fatty acid alkyl ester	N/A	N/A	17.G/kg	N/A



Section 12. Ecological Information

The environmental impact (Eco-toxicity) of this product has not been investigated.
The fatty acid alkyl ester is biodegradable.

Section 13. Disposal Considerations

Wash Disposal Method

- *Component Waste Numbers:* EPA Waste Numbers are not available for this product or its components.
- *Instructions:* Dispose in accordance with applicable federal, state, and local regulations. Refer to **Section 7 for Handling Procedures** and **Section 8 for PPE recommendations**.
- *Contaminated Packaging:* Dispose in accordance with local regulations.

Section 14. Transportation Information

- **US DOT:** Not regulated
- **IMDG:** Not regulated
- **IATA:** Not regulated
- **TDG:** Not regulated

Section 15. Regulatory Information

U.S. Regulatory Information

OSHA/MSHA Hazard Communication: This product is considered by OSHA/MSHA to be a hazardous chemical and should be in the employees' hazard communication package.

CERCLA/Superfund: Neither this product nor its components are listed as a CERCLA hazardous substance.

EPCRA SARA Title III

<u>Component</u>	<u>SARA 311/312</u>	<u>SARA 313 Title III</u>
Aggregate (Silica)	Acute health hazard (irritation)	--
Asphalt	Delayed (chronic) health effects	--

RCRA: If discarded as purchased, this product is not hazardous waste either by listing or characteristic.

TSCA: Components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

Ingredients/Components State Regulated

<u>Component</u>	<u>State</u>					
	<u>CA</u> ¹	<u>MA</u>	<u>MN</u>	<u>NJ</u>	<u>PA</u>	<u>RI</u>
Silica, quartz	Yes	Yes	NK	Yes	Yes	NK
Asphalt	Yes	Yes	Yes	Yes	Yes	Yes

¹ Contains substances crystalline silica and asphalt; known by State of California to cause cancer. California's Proposition 65.

Canadian Regulatory Information

- Classification of this product by hazardous criteria of CPA component crystalline silica as D2A – very toxic and is subject to WHMIS requirements.

WHMIS – Canada Pictograms



<u>NFPA</u>	<u>HMIS</u>
	HEALTH <input type="text" value="1"/>
	FLAMMABILITY <input type="text" value="0"/>
	REACTIVITY <input type="text" value="0"/>
	PERSONAL PROTECTION <input type="text"/>

**Other Information****Abbreviations:**

>	Greater than	MSHA	Mine Safety and Health Administration
<	Less than	N/A	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
ANSI	American National Standards Institute	NTP	National Toxicology Program
ARC	American Red Cross	OSHA	Occupational Safety and Health Administration
CAS No.	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	pH	Negative log of hydrogen ion
CPA	Consumer Protection Agency	PPE	Personal Protective Equipment
DOT	U.S. Department of Transportation	R	Respirable Particulate
EPA	Environmental Protection Agency	RCRA	Resource Conservation and Recovery Act
EPCRA	Emergency Planning and Community Right-to-Know Act	SARA	Superfund Amendments and Reauthorization Act
EST	Eastern Standard Time	SCBA	Self-Contained Breathing Apparatus
HMIS	Hazardous Materials Identification System	T	Total Purchase
IARC	International Agency for Research on Cancer	TDG	Transportation of Dangerous Goods
IATA	International Air Transport Association.	TLV	Threshold Limit Value
IMDG	International Maritime Dangerous Goods Code	TSCA	Toxic Substances Control Act
LC ₅₀	Lethal Concentration	TWA	Total Weighted Average (8 hour)
LD ₅₀	Lethal Dose	VOC	Volatile Organic Compound
mg/m ³	Milligrams per cubic meter	WHMIS	Workplace Hazardous Materials Information System

This MSDA was revised on April 18, 2013 by PRI Asphalt Technologies, Inc.; Tampa, FL 33610.

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