Asphalt Repair Products

MATERIAL SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30329

Emergency Telephone Number
(770) 216-9580

Information Telephone Number
(770) 216-9580

MSDS N3
Revision: Aug-12

QUIKRETE® Product Name        Code #
BLACKTOP PATCH                  1701-60
PERMANENT BLACKTOP REPAIR       1701-62, -52, -59
ASPHALT COLD PATCH              1701-58

PRODUCT USE: COLD-PATCH REPAIR MATERIAL FOR ASPHALT

SECTION II - HAZARD IDENTIFICATION

Route(s) of Entry: Inhalation, Skin, Ingestion

Carcinogenicity: No association has been established between industrial exposure to petroleum asphalt and cancer in humans. The International Agency for Research on Cancer (IRAC) reviewed the carcinogenic potential or asphalts in monograph 35. They conclude that there was insufficient evidence that undiluted, air-refined asphalt was carcinogenic to animals, while there was only limited evidence that steam-refined asphalts were carcinogenic to animals. Additionally there was insufficient evidence to conclude that asphalts were carcinogenic to human beings. Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists, fumes, or vapors should be reduced to a minimum.

Signs and Symptoms of Exposure: Possible effects include headache, nasal, eye, skin and respiratory irritation, nausea; fatigue; drowsiness; pneumonitis; pulmonary edema & central nervous system depression. Aspiration hazard if ingested.

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS No.</th>
<th>PEL (OSHA) mg/M³</th>
<th>TLV (ACGIH) mg/M³</th>
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**SECTION IV – First Aid Measures**

**Eyes:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside. Inhalations of large amounts of Portland cement require immediate medical attention.

**Ingestion:** Do not induce vomiting. GET MEDICAL ATTENTION PROMPTLY!

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**SECTION V - FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used):** 150°F Minimum (Pensky-Martin Closed Cup Method - ASTM D93)

**Flammable Limits:**

<table>
<thead>
<tr>
<th>LEL</th>
<th>VEL</th>
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<tr>
<td>0.05</td>
<td>5</td>
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**Extinguishing Media:** Water spray, Dry chemical, Foam or Carbon dioxide. Water or foam may cause frothing.

**Special Fire Fighting 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. Storage at elevated temperatures may cause release of flammable vapors in open air or explosive vapors in confined spaces. Can cause the creation of carbon monoxide, carbon dioxide, and hydrocarbons.

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**SECTION VI – ACCIDENTAL RELEASE 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.
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE
Do not store with strong oxidizers. Store as OSHA Class IIIA Combustible material. Store away from heat sources and open flames.

SECTION VIII – EXPOSURE CONTROL MEASURES
Engineering Controls: Local exhaust with a minimum face velocity of 60 fpm
Personal Protection: Use of a NIOSH/MSHA-approved hydrocarbon vapor or supplied respiratory protection required in confined spaces. Use impervious gloves to avoid skin contact. Use splash goggles and face shields when eye/face contact may occur.
Precautions: Do not use solvents or abrasive cleaners to wash exposed skin.

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

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Black semi-solid material with a hydrocarbon odor
Boiling Point: (1) 105-338 F (40-170 C)  
Vapor Density: >4
Specific Gravity: Approximately 2.25  
Evaporation Rate: (1) >0.1
Vapor Pressure: (1) 10-200 mm Hg @ 68 F (20 C)  
Solubility in Water: Negligible
Melting Point: (1) 100-135 F (38-57 C)  
(1) Properties of asphalt binder portion of the product.

SECTION X - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Strong Oxidizers like liquid oxygen, sodium or calcium hypochlorite
Hazardous Decomposition or Byproducts: Incomplete combustion can yield carbon monoxide, and oxides of sulfur and nitrogen and various hydrocarbons.
Hazardous Polymerization: Will not occur

SECTION XI – TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Ingestion
Toxicity to Animals:  
LD50: Not Available  
LC50: Not Available
Chronic Effects on Humans: Conditions aggravated by exposure include eye disease, skin disorders and Chronic Respiratory conditions.
Special Remarks on Toxicity: Not Available

SECTION XII – ECOLOGICAL INFORMATION
Cement & Concrete Products™

Ecotoxicity: Not Available
BOD5 and COD: Not Available
Products of Biodegradation: Not available
Toxicity of the Products of Biodegradation: Not available
Special Remarks on the Products of Biodegradation: Not available

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of unusable material via licensed waste disposal company in accordance with local, state and federal guidelines.

SECTION XIV – TRANSPORT INFORMATION

DOT/UN Shipping Name: Non-regulated
DOT Hazard Class: Non-regulated
Shipping Name: Non-regulated
Non-Hazardous under U.S. DOT and TDG Regulations

SECTION XV – OTHER REGULATORY INFORMATION

US OSHA 29CFR 1910.1200: Considered hazardous under this regulation and should be included in the employers hazard communication program
SARA (Title III) Sections 311 & 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 Substances Act: Is a hazardous substance subject to statues 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 Regulations 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.

SECTION XVI – OTHER INFORMATION

HMIS-III:

Health –
0 = No significant health risk
1 = Irritation or minor reversible injury possible
2 = Temporary or minor injury possible
3 = Major injury possible unless prompt action is taken
4 = Life threatening, major or permanent damage possible

Flammability-
0 = Material will not burn
1 = Material must be preheated before ignition will occur
2 = Material must be exposed to high temperatures before ignition
3 = Material capable of ignition under normal temperatures
4 = Flammable gases or very volatile liquids; may ignite spontaneously
Physical Hazard-  
0 = Material is normally stable, even under fire conditions  
1 = Material normally stable but may become unstable at high temps  
2 = Materials that are unstable and may undergo react at room temp  
3 = Materials that may form explosive mixtures with water  
4 = Materials that are readily capable of explosive water reaction

Abbreviations:
- ACGIH: American Conference of Government Industrial Hygienists
- CAS: Chemical Abstract Service
- CERCLA: Comprehensive Environmental Response, Compensation & Liability Act
- CFR: Code of Federal Regulations
- CPR: Controlled Products Regulations (Canada)
- DOT: Department of Transportation
- IARC: International Agency for Research
- MSHA: Mine Safety and Health Administration
- NIOSH: National Institute for Occupational Safety and Health
- NTP: National Toxicity Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible Exposure Limit
- RCRA: Resource Conservation and Recovery Act
- SARA: Superfund Amendments and Reauthorization Act
- TLV: Threshold Limit Value
- TWA: Time-weighted Average
- WHMIS: Workplace Hazardous Material Information System

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