QPR® NO VOC REPAIR MATERIAL MSDS

Section 1: PRODUCT AND COMPANY INFORMATION

Product Name(s): QPR® No VOC Repair Material

Product Identifiers: QPR®, Quality Pavement Repair®, QPR® High Performance Pavement Repair.

Manufacturer:

QPR Quality Pavement Repair
12735 Morris Rd Suite 150
Alpharetta, GA 30004

Information Telephone Number:

(800) 388-4338 (8am to 5pm EST)

Emergency Telephone Number:

(585) 944-7996 (Afterhours)

Product Use: QPR® No VOC Repair Material is a high performance cold patch used for repairing asphalt pavement, driveways and parking lots.

Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL - TWA (mg/m^3)	ACGIH TLV-TWA (mg/m^3)	LD_{50} (rat, oral)	LC_{50}
Aggregate	90-95	Various	N/A	N/A	N/A	N/A
Asphalt Cement (as Fume)	<5	8052-42-4	N/A	0.5	N/A	N/A
#2 Fuel Oil (as Vapor & Aerosol)	<2	68476-30-2	<2000mg/kg	<100mg/kg	<50mg/kg	N/A
Crystalline Silica (as Quartz)	varies	14808-60-7	[(10) / (%SiO_2+2)] (R); [(30) / (%SiO_2+2)] (T)	0.025 (R)	N/A	N/A

Section 3: HAZARD IDENTIFICATION

WARNING

Toxic - Harmful by inhalation.

(Contains crystalline silica)

Irritant: Causes eye, skin and inhalation irritation

Use proper engineering controls, work practices, and personal protective equipment.

Read MSDS for details.

Eye Protection

Gloves

Emergency Overview: QPR® No VOC Repair Material is a black colored granular solid that has a petroleum odor. Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis. If heated, hot product will cause severe thermal burns. When heated, this product will release toxic hydrogen sulfide (H_2S) vapors.

Potential Health Effects

Eye Contact: Airborne dust may cause immediate or delayed irritation or inflammation. Eye contact with amounts of QPR® No VOC Repair Material can cause moderate eye irritation, redness, and itching. Eye exposures require immediate first aid to prevent damage to the eye. If heated, hot product will cause severe thermal burns.

Skin Contact: QPR® may cause dry skin, discomfort, irritation, and dermatitis. Repeated contact may cause skin irritation from abrasion and asphalt cement. If heated, hot product will cause severe thermal burns.

Section 3: HAZARD IDENTIFICATION (continued)

Inhalation (acute): When heated, QPR® No VOC Repair Material may release irritating fumes or vapours such as smoke, carbon dioxide, carbon monoxide, and unburned hydrocarbons. Hydrogen sulfide and other sulfur-containing gases can evolve from this product at elevated temperatures. Exposure to fumes or vapours may cause irritation of the nose and throat, and symptoms such as headache, dizziness, loss of coordination, and drowsiness. Cutting, crushing or grinding hardened asphalt will release dust. Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.

Inhalation (chronic): Risk of injury depends on duration and level of exposure.

Silicosis: This product contains trace amounts of crystalline silica. Cutting, crushing or grinding hardened asphalt or other crystalline silica-bearing materials will release respirable crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease.

Carcinogenicity: QPR® No VOC Repair Material is not listed as a carcinogen by IARC or NTP; however, QPR® No VOC Repair Material contains trace amounts of crystalline silica that is classified by IARC and NTP as known human carcinogen.

Ingestion: Do not chew or ingest QPR® No VOC Repair Material. Ingestion may result in nausea, vomiting, diarrhoea and restlessness. Chewing asphalt has caused gastrointestinal effects. Stomach obstructions have been reported in individuals who have chewed and swallowed asphalt.

Medical Conditions Aggravated by Exposure: Individuals with preexisting skin conditions can be aggravated by exposure.

Section 4: FIRST AID MEASURES

Eye Contact: For contact with QPR® No VOC Repair Material, rinse eyes thoroughly with water for at least 15 minutes. Seek medical attention. For contact with hot material, flush with large amounts of water for at least 15 minutes. Immediately call a physician.

Skin Contact: Wash with cool water and a pH neutral soap or a mild skin detergent. Do not use solvents or thinners to remove material form skin. Seek medical attention for rash, irritation, and dermatitis.

For contact with hot material, immerse or flush skin with cold water for at least 15 minutes. Call a physician. Do not attempt to remove solidified material, since removal may cause further tissue injury.

Inhalation: Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Ingestion: Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

Section 5: FIRE FIGHTING MEASURES

Flashpoint & Method:	N/A	**Firefighting Equipment:**	A SCBA is recommended to limit exposures to combustion products when fighting any fire
General Hazard:	Combustible solid Avoid breathing fumes.		
General Hazard:	Use extinguishing media appropriate for surrounding fire.	**Combustion Products:**	Toxic gases produced in fire, such as CO, CO_2, H_2S.
Upper/Lower Flammable Limit:	N/A	**Auto-Ignition Temperature:**	N/A

Section 6: ACCIDENT RELEASE MEASURES

General: Use a shovel to scrape up material and place material into suitable containers for recovery or disposal. Do not wash QPR® No VOC Repair Material down sewage and drainage systems or into bodies of water (e.g. streams). Wear appropriate protective equipment as described in Section 8.

Waste Disposal Method: Dispose of QPR® No VOC Repair Material according to Federal, State, Provincial and Local regulations.

Section 7: HANDLING AND STORAGE

General: Keep bagged QPR® No VOC Repair Material sealed until used. Stack bagged material in a secure manner to prevent falling. Bagged QPR® No VOC Repair Material is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures. Do not stand on stockpiles of QPR® No VOC Repair Material, they may be unstable.

Usage: QPR® No VOC Repair Material should not be heated above 70°F (21°C) when utilizing a hot box. Cutting, crushing or grinding hardened asphalt or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8 below.

Avoid contact with skin, eyes and clothing. Use additional precautions when handling hot material. Do not breathe fumes or vapor from heated material. Do not allow hot material to contact skin. Use all appropriate Personal Protective Equipment (PPE) described in Section 8 below.

Storage: Store in properly closed containers that are appropriately labeled and in a cool wellventilated area. Do not expose to heat, open flames, strong oxidizers or other source of ignition.

Storage Temperature: Store away from heat, all ignition sources and open flames.

Clothing: Remove and launder clothing that is soiled with QPR® No VOC Repair Material . Thoroughly wash hands and exposed skin after exposure to QPR® No VOC Repair Material.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Under ordinary conditions, engineering controls are not required. Use local exhaust or general dilution ventilation when using at elevated temperatures or during activities that generate fumes, to maintain levels below exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection: Under ordinary conditions no respiratory protection is required. Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust or fumes above exposure limits.

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued)

Eye Protection:	Wear ANSI approved glasses, safety goggles, or face shield when handling QPR® No VOC Repair Material to prevent contact with eyes.
Skin Protection:	Wear leather or cloth work gloves to prevent skin contact and insulated gloves when handling hot material. Thoroughly wash hands and other exposed skin after exposure to QPR® No VOC Repair Material.
Foot Protection:	Wear ANSI approved hard-toed safety boots when handling QPR® No VOC Repair Material.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granular solid	**Evaporation Rate:**	N/A
Appearance:	Black solid	**pH (in water):**	N/A
Odor:	Slight petroleum odor	**Boiling Point:**	563 - 1301° F (295 - 705° C)
Vapor Pressure:	N/A	**Freezing Point:**	N/A
Vapor Density:	N/A	**Viscosity:**	N/A
Specific Gravity:	2.6-2.8	**Solubility in Water:**	Insoluble

Section 10: STABILITY AND REACTIVITY

Stability:	Stable. Avoid contact with incompatible materials, excessive heat, sources of ignition and open flame.
Incompatibility:	QPR® No VOC Repair Material is incompatible with strong acids or bases, and oxidizing agents such as nitrates,chlorates and peroxides.
Hazardous Polymerization:	None.
Hazardous Decomposition:	When heated may liberate hydrogen sulfide and various hydrocarbons.

Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION

For questions regarding toxicological and ecological information refer to contact information in Section 1.

Section 13: DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

Section 14: TRANSPORT INFORMATION

This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

Section 15: REGULATORY INFORMATION

OSHA/MSHA Hazard Communication:	This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.
CERCLA/SUPERFUND:	This product is not listed as a CERCLA hazardous substance.
EPCRA SARA Title III:	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered to be an acute health hazard (irritation).
EPRCA SARA Section 313:	This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Section 15: REGULATORY INFORMATION (continued)

RCRA: If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

California Proposition 65: Crystalline silica (airborne particulates of respirable size) is a substance known by the State of California to cause cancer.

WHMIS/DSL: Products containing crystalline silica are classified as D2A and are subject to WHMIS requirements.

Section 16: OTHER INFORMATION

Abbreviations:

>	Greater than	N/A	Not Applicable
<	Less than	NFPA	National Fire Protection Association
ACGIH	American Conference of Governmental Industrial Hygienists	NIOSH	National Institute for Occupational Safety and Health
CAS No	Chemical Abstract Service number	NTP	National Toxicology Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	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
LC_{50}	Lethal Concentration	TDG	Transportation of Dangerous Goods
LD_{50}	Lethal Dose	TLV	Threshold Limit Value
mg/m^3	Milligrams per cubic meter	TWA	Total Weighted Average (8 hour)
MSHA	Mine Safety and Health Administration	WHMIS	Workplace Hazardous Materials Information System

This MSDS (Sections 1-16) was revised on August 1, 2012.

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