

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Trade name : Permanent Pavement Repair Material

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

UNIQUE Paving Materials Corp.
 3993 East 93rd Street
 Cleveland, 44105 - United States of America
 T (216) 441-4880
<http://www.uniquepavingmaterials.com/>

1.4. Emergency telephone number

Emergency number : (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315
 Carc. 1B H350
 STOT RE 2 H373

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
 H350 - May cause cancer
 H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P260 - Do not breathe dust
 P264 - Wash hands thoroughly after handling
 P280 - Wear protective gloves, clothes, and goggles.
 P302+P352 - If on skin: Wash with plenty of water for at least 15 minutes.
 P308+P313 - If exposed or concerned: Get medical attention
 P314 - Get medical attention if you feel unwell
 P321 - Specific treatment (see first aid measures on this label)
 P332+P313 - If skin irritation occurs: Get medical attention
 P362 - Take off contaminated clothing and wash before reuse
 P405 - Store locked up
 P501 - Dispose of contents to meet all regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Petroleum Asphalt Base	(CAS No) 8052-42-4	2 - 8	Carc. 1B, H350
Petroleum Solvent	(CAS No) 68476-34-6	1 - 3	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Quartz	(CAS No) 14808-60-7	0.091 - 0.97	Carc. 1A, H350

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Give oxygen or artificial respiration if necessary. Get medical advice/attention if you feel unwell. Allow victim to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see first aid measures on this label).
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Dizziness, headaches, nausea. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Irritation. Causes skin irritation.
Symptoms/injuries after eye contact	: Severe irritation including redness, tearing and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Never use a welding or cutting torch on or near drums of this material (even empty drums) because the material can ignite explosively.
Reactivity	: Stable under normal conditions.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special protective equipment for fire fighters : Full face piece respirator.
- Other information : Water or foam may cause frothing which can be violent and may present a life-threatening situation. Frothing is most likely to occur when streams of water or foam are sprayed into hot or burning containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : The material can be reused; use old material as a base under fresh product.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Permanent Pavement Repair Material		
ACGIH	Not applicable	
OSHA	Not applicable	
Petroleum Solvent (68476-34-6)		
ACGIH	ACGIH TWA (mg/m ³)	100 mg/m ³
OSHA	Not applicable	
Petroleum Asphalt Base (8052-42-4)		
ACGIH	Not applicable	
OSHA	Not applicable	
Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 respirable fraction
OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³ respirable dust
OSHA	Remark (OSHA)	(3) See Table Z-3.

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Impervious clothing. Impervious shoes. Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Black coated stone.
Color	: Black
Odor	: Tar, Petroleum
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: Slower than ether.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F Cleveland Tag Open Cup Method
Auto-ignition temperature	: No data available

Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Heavier than air.
Solubility	: Negligible. Water: Solubility in water of component(s) of the mixture : • : 0.001 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Petroleum Solvent (68476-34-6)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	2000 mg/kg
ATE US (oral)	5000.000 mg/kg body weight
ATE US (dermal)	2000.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

Petroleum Asphalt Base (8052-42-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 94.4 ml/m ³

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Not classified
 Respiratory or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : May cause cancer.

Petroleum Asphalt Base (8052-42-4)	
IARC group	2A - Probably carcinogenic to humans, 2B - Possibly carcinogenic to humans

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans

Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Not classified
 Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.
 Aspiration hazard : Not classified
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
 Symptoms/injuries after inhalation : Dizziness, headaches, nausea. May cause respiratory irritation.
 Symptoms/injuries after skin contact : Irritation. Causes skin irritation.
 Symptoms/injuries after eye contact : Severe irritation including redness, tearing and blurred vision.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Permanent Pavement Repair Material	
Persistence and degradability	Not established.

Petroleum Solvent (68476-34-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Petroleum Asphalt Base (8052-42-4)	
Persistence and degradability	Not established.

Quartz (14808-60-7)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Permanent Pavement Repair Material	
Bioaccumulative potential	Although there is no evidence that the components of UPM asphalt cold mix bioaccumulate in the food chains, the heavier molecular eight components of asphalt and Petroleum solvent may be persistent under some environmental conditions. Release of these products into surface waters should be avoided. Not established.

Petroleum Solvent (68476-34-6)	
Bioaccumulative potential	Not established.

Petroleum Asphalt Base (8052-42-4)	
Bioaccumulative potential	Not established.

Quartz (14808-60-7)	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

- Effect on ozone layer :
- Effect on the global warming : No known ecological damage caused by this product.
- Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents to meet local and national regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
 Not regulated for transport

Additional information

- Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Petroleum Solvent (68476-34-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Petroleum Asphalt Base (8052-42-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz, Silica (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Quartz, Silica (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Petroleum Asphalt Base (8052-42-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

Quartz, Silica (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

-----	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
-----	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
-----	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
-----	Asp. Tox. 1	Aspiration hazard Category 1
-----	Carc. 1A	Carcinogenicity Category 1A
-----	Carc. 1B	Carcinogenicity Category 1B
-----	Carc. 2	Carcinogenicity Category 2
-----	Flam. Liq. 3	Flammable liquids Category 3
-----	Skin Irrit. 2	Skin corrosion/irritation Category 2
-----	STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
-----	H226	Flammable liquid and vapour
-----	H304	May be fatal if swallowed and enters airways
-----	H312	Harmful in contact with skin
-----	H315	Causes skin irritation
-----	H332	Harmful if inhaled
-----	H350	May cause cancer
-----	H351	Suspected of causing cancer
-----	H373	May cause damage to organs through prolonged or repeated exposure
-----	H411	Toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

“Providing valuable products from valuable people to valuable customers.”

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