

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

1.1. Product identifier

Product form : Mixture
 Product name : **UPM** Liquid Blend Shipped at ambient temperature
 Other means of identification : **UPM** Liquid Blend, Ambient

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, 44106 - United States of America
 T (216) 341-7711
<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
 Skin Sens. 1 H317
 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
 H317 - May cause an allergic skin reaction
 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 fumes or vapours
 P261 - Avoid breathing fumes
 P264 - Wash hands thoroughly after handling
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear proper personal protective equipment
 P302+P352 - If on skin: Wash with plenty of water for at least 15 minutes
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P314 - Get medical advice/attention if you feel unwell
 P321 - Specific treatment (see first aid measures on this label)
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before reuse
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P405 - Store locked up
 P501 - Dispose of contents/container to meet with all regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

1.12 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

1.12 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

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	75 - 95	Carc. 1B, H350
Petroleum Solvent	(CAS No) 68476-34-6	3 - 25	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
Polyamines		0 - 3	Skin Sens. 1, H317 Carc. 1B, 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 : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of soap and water. Wash contaminated clothing before reuse. 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 persist.
- 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 : Inhaling this product can result in respiratory tract irritation, leading to mild to severe irritation of the nose, throat and lungs. Dizziness, headaches, nausea. May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Severe irritation including redness, tearing and blurred vision.
- Symptoms/injuries after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : 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.

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protective equipment.
- 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

- For containment : Dike the product for recovery.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. 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. Avoid breathing fumes. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Container remains hazardous when empty. Continue to observe all precautions.
- Storage conditions : Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from high temperature or ignition sources. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.
- Storage temperature : Short term store near 200F; Pump at 170F and above; Long term may be stored at ambient temperature to minimize the volatilization of petroleum solvent.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

UPM Liquid Blend Shipped at ambient temperature		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (ppm)	Hydrogen Sulfide: 10ppm
DNEL	DNEL	<
Petroleum Asphalt Base (8052-42-4)		
ACGIH	ACGIH TWA (mg/m ³)	5
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm as fumes
Petroleum Solvent (68476-34-6)		
ACGIH	ACGIH TWA (mg/m ³)	100 mg/m ³
OSHA	Not applicable	
Polyamines		
ACGIH	Not applicable	
OSHA	Not applicable	
Trade Secret		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: Impervious clothing. Footwear (shoes, boots).
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: 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	: Liquid
Appearance	: Dark, Viscous Liquid.
Color	: Black;Dark
Odor	: ammonia 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	: 400 °F
Flash point	: 200 - 230 °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	: Heavier than air.
Relative density	: Lower than water.
Solubility	: Negligible. Water: Solubility in water of component(s) of the mixture : • : 0.4 % • .epsilon.-Caprolactam: 4560 g/l (at 20 °C)
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

Not established.

10.3. Possibility of hazardous reactions

Not established.

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 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

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 (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.
 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

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 : Inhaling this product can result in respiratory tract irritation, leading to mild to severe irritation of the nose, throat and lungs. Dizziness, headaches, nausea. May cause an allergic skin reaction.
 Symptoms/injuries after skin contact : Causes skin irritation.
 Symptoms/injuries after eye contact : Severe irritation including redness, tearing and blurred vision.
 Symptoms/injuries after ingestion : May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment.

12.2. Persistence and degradability

UPM Liquid Blend Shipped at ambient temperature	
Persistence and degradability	Not established.

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

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

Trade Secret	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

UPM Liquid Blend Shipped at ambient temperature	
BCF fish 1	<=
Bioaccumulative potential	Not established.

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

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

Trade Secret	
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 treatment methods : Dispose in accordance with all applicable Federal, State and Local regulations.
 Sewage disposal recommendations : Do not dispose of waste into sewer.
 Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to meet all regulations.
 Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
 Not Evaluated

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

UPM Liquid Blend Shipped at ambient temperature		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:		
Hydrogen Sulfide	CAS No 7783-06-4	C<=0.095%
Polyamines	CAS No	C<=1.12%
Tall Oil	CAS No Trade secret	C<=5.32%
Distilled Tall Oil	CAS No 8002-26-4	C<=2.80%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

15.2. International regulations

CANADA

No additional information available

Trade Secret

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

Trade Secret

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Petroleum Asphalt Base (8052-42-4)

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. 1B	Carcinogenicity Category 1B
----- Carc. 2	Carcinogenicity Category 2
----- Flam. Liq. 3	Flammable liquids Category 3
----- Skin Irrit. 2	Skin corrosion/irritation Category 2
----- Skin Sens. 1	Skin sensitization Category 1
----- 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
----- H317	May cause an allergic skin reaction
----- 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

GHS US SDS

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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