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

1.1. Product identifier

Product form : Mixture
Trade name : INTEGRA-SEAL® ASPHALT SEALER, INTEGRA-SEAL® ASPHALT SEALER PLUS

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
Eye Irrit. 2A H319
Skin Sens. 1 H317
Carc. 1A H350

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
H319 - Causes serious eye irritation
H350 - May cause cancer

Precautionary statements (GHS-US) :
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing fumes mist or vapours.
P264 - Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear gloves, goggles and protective clothing.
P302+P352 - If on skin: Wash with plenty of water for at least 15 minutes
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
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
P337+P313 - If eye irritation persists: 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 all regulations.

2.3. Other hazards

Other hazards not contributing to the classification : This product does not contain any constituents that, based on information currently available, are considered a reproductive toxin.

2.4. Unknown acute toxicity (GHS-US)

21.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
21.5 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
13 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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	24.875 - 39.96	Carc. 1B, H350
Filler Clay	(CAS No) Trade Secret	2 - 25	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Coloring Agent	(CAS No) Trade Secret	0 - 3	Carc. 2, H351
Trade Secret*		0 - 2	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317
Trade Secret*		0 - 1.5	Carc. 1B, H350
Trade Secret*		0 - 1	Carc. 1A, H350
Trade Secret A*		0 - 1	Carc. 2, H351

***Chemical name, CAS number and/or exact concentration have been withheld as a trade secret**

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 : Remove person to fresh air and keep comfortable for breathing. Artificial respiration and/or oxygen 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 immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Never use solvents or thinner to remove product from the skin. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. Specific treatment (see first aid measures on this label). If skin irritation or rash occurs:

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Keep victim warm and rested. Keep respiratory tract clear. Never give anything by mouth to unconscious person. If symptoms persist, call a physician and take victim immediately to hospital. . Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact : severe skin irritation, redness, dermatitis. Causes skin irritation.
Symptoms/injuries after eye contact : Causes eye irritation. Causes serious eye irritation.
Symptoms/injuries after ingestion : Vomiting. Swallowing a small quantity of this material will result in serious health hazard.

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

Fire hazard : This material may burn after prolonged heating at elevated temperatures.
Explosion hazard : Be cautious of potentially volatile vapors that may evolve from the material at elevated temperatures. Under the proper conditions these vapours can travel to an ignition source and ignite. At elevated temperatures this material can potentially evolve flammable vapours which, especially when contained in a confined space, can create a potential explosion hazard.
Reactivity : Stable under normal conditions.

5.3. Advice for firefighters

Firefighting instructions : Be cautious of potentially volatile vapors that may evolve from the material at elevated temperatures. Under the proper conditions these vapours can travel to an ignition source and ignite. 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 : Wear self-contained breathing apparatus and protective suit (see item 8).
Specific methods : At elevated temperatures this material can potentially evolve flammable vapours which, especially when contained in a confined space, can create a potential explosion hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Should the product undergo thermal decomposition, general products of combustion could result. Hydrogen sulfide, sulfur compounds, oxides of carbon (i.e. carbon monoxide, carbon dioxide) and other poisonous gases would likely be included in the products of combustion.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.
Emergency procedures : Avoid contact with skin, eyes and clothing. Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip clean-up crew with proper protection.
Emergency procedures : Stop leak if safe to do so. Ventilate area.

3993 E. 93rd Street ı Cleveland, OH 44105 ı Phone 800.441.4880 ı Fax 216.341.8514 ı UniquePavingMaterials.com

6.2. Environmental precautions
Avoid release to the environment. 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 : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Dike for recovery or absorb with appropriate material. Pump or shovel any salvageable material into clean containers for reuse. Absorb any remaining liquid with sand, vermiculite or other absorbent material and shovel the mixture into containers for disposal. 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 : Avoid contact with skin, eyes and clothing. 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 vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 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 : Comply with applicable regulations.

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Store away from freezing (avoid freezing during storage). Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Oxidizing agent. Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 12 months in unopened containers

Heat-ignition : Keep away from heat, sparks and flame.

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Store in a closed container.

Packaging materials : Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

INTEGRA-SEAL ASPHALT SEALER	
ACGIH	Not applicable
OSHA	Not applicable

Petroleum Asphalt Base (8052-42-4)		
ACGIH	ACGIH TWA (mg/m³)	5
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm as fumes

Filler Clay (Trade Secret)		
ACGIH	Not applicable	
OSHA	Remark (OSHA)	15 mg/m3 total dust, 5mg/m3 Respirable Dust

Trade Secret		
ACGIH	Not applicable	
OSHA	Not applicable	

Trade Secret		
ACGIH	ACGIH TWA (mg/m³)	0.025 respirable fraction
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ respirable dust
OSHA	Remark (OSHA)	(3) See Table Z-3.

Trade Secret A		
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
ACGIH	Remark (ACGIH)	LRT irr; A3
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

Coloring Agent (Trade Secret)		
ACGIH	ACGIH TWA (mg/m³)	3.5 mg/m³
OSHA	Not applicable	

Trade Secret	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Personal protective equipment : apron. Boots. Gloves. Splash goggles. Avoid all unnecessary exposure.

Materials for protective clothing : Boots. Lab coat.
Hand protection : protective gloves. Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Chemical resistant apron. Lab coat. Boots. Wear suitable protective clothing.
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask.
Environmental exposure controls : Avoid release to the environment.
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 : Dark

Odor : No data available

Odor threshold : No data available

pH : 9 - 10.5

Relative evaporation rate (butyl acetate=1) : slower than Ether

Melting point	: No data available
Freezing point	: No data available
Boiling point	: 212 °F
Flash point	: > 600 °F
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	: ≤ 1
Relative density	: No data available
Specific gravity / density	: 1.07
Solubility	: insoluble in water
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
Freezing. Sparks. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Mainly water vapor. Other potentially hazardous toxic vapors and organic compounds may be formed once water is fully evaporated, including hydrogen sulfide 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/m³

Filler Clay (Trade Secret)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Trade Secret A	
LD50 oral rat	> 10000 mg/kg
LC50 inhalation rat (mg/l)	> 6.8 mg/l/4h

Coloring Agent (Trade Secret)	
LD50 oral rat	8000 (≥ 8000) mg/kg
LD50 dermal rabbit	> 3000 mg/kg
ATE US (oral)	8000.000 mg/kg body weight

Trade Secret	
LD50 oral rat	580 g/kg
LD50 dermal rat	2 g/kg
LD50 dermal rabbit	3.5 g/kg
ATE US (oral)	500.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
pH: 9 - 10.5

Serious eye damage/irritation : Causes serious eye irritation.
pH: 9 - 10.5

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

Trade Secret	
IARC group	1 - Carcinogenic to humans
Trade Secret A	
Additional information	Trade Secret A dust, when inhaled, has been classified by the International Agency for Research on Cancer (IARC) as an IARC Group 2B carcinogen, meaning it is possibly carcinogenic to humans. The findings of the IARC are based on the discovery that high concentrations of pigment-grade (powdered) and ultrafine titanium dioxide dust caused respiratory tract cancer in rats exposed by inhalation and intratracheal instillation.

Trade Secret	
IARC group	2B - Possibly carcinogenic to humans

Coloring Agent (Trade Secret)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Trade Secret A	
Additional information	Target organs :Eyes,skin and respiratory system.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified
Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact : severe skin irritation, redness, dermatitis. Causes skin irritation.
Symptoms/injuries after eye contact : Causes eye irritation. Causes serious eye irritation.
Symptoms/injuries after ingestion : Vomiting. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Bioaccumulation of this product or its components is not a known environmental fate. Although this product is not considered an ecological toxin, the release of this product into surface waters should be avoided.

Trade Secret A	
LC50 fish 1	> 1 ml/l 96h
EC50 Daphnia 1	> 1 mg/l 48h

12.2. Persistence and degradability

INTEGRA-SEAL ASPHALT SEALER	
Persistence and degradability	Not established.

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

Trade Secret	
Persistence and degradability	Not established.

Trade Secret A	
Persistence and degradability	Not established.

Coloring Agent (Trade Secret)	
Persistence and degradability	Not established.

Trade Secret	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

INTEGRA-SEAL ASPHALT SEALER	
Bioaccumulative potential	Not established.

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

Trade Secret	
Bioaccumulative potential	Not established.

Trade Secret A	
Bioaccumulative potential	The product is practically insoluble in water and not biodegradable.

Coloring Agent (Trade Secret)	
Bioaccumulative potential	Not established.

Trade Secret	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

Trade Secret A	
Ecology - soil	No specific data.

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

Petroleum Asphalt Base (8052-42-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Trade Secret A	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

Coloring Agent (Trade Secret)
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

Trade Secret
Listed on IARC (International Agency for Research on Cancer)

Trade Secret A
Listed on IARC (International Agency for Research on Cancer)

Coloring Agent (Trade Secret)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Coloring Agent (Trade Secret)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

Petroleum Asphalt Base (8052-42-4)
U.S. - New Jersey - Right to Know Hazardous Substance List

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

Coloring Agent (Trade Secret)
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 (Oral)	Acute toxicity (oral) Category 4
------	Carc. 1A	Carcinogenicity Category 1A
------	Carc. 1B	Carcinogenicity Category 1B
------	Carc. 2	Carcinogenicity Category 2
------	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
------	Skin Irrit. 2	Skin corrosion/irritation Category 2
------	Skin Sens. 1	Skin sensitization Category 1
------	H302	Harmful if swallowed
------	H315	Causes skin irritation
------	H317	May cause an allergic skin reaction
------	H319	Causes serious eye irritation
------	H350	May cause cancer
------	H351	Suspected of causing cancer

GHS US SDS

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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.

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