



## Material Safety Data Sheet SPM Liquid Blend/SC Cutback Asphalt

Date Prepared: January 7, 2002  
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### SPM LIQUID BLEND

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#### 1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SPM Liquid Blend / SC Cutback Asphalt

**Company:** Unique Paving Materials Corporation  
3993 East 93<sup>rd</sup> Street  
Cleveland, Ohio 44105

**Emergency Telephone Numbers:** (216) 341-7711 (8:00 am-4:30 pm Mon-Fri)  
(800) 424-9300 CHEMTREC

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#### 2.0 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>% By Weight</u>
Petroleum Asphalt Base	8052-42-4	70-95
Petroleum Solvent	68476-30-2	3-30
Amido-Amino Complex	Proprietary	0-7

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#### 3.0 HAZARDS IDENTIFICATION

Potential Health Effects and Symptoms of Exposure

**Eyes:** Severe irritation including redness, tearing and blurred vision.

**Skin:** Prolonged or repeated contact may cause irritation of the skin and/or dermatitis, including possible allergic dermatitis.

**Swallowing:** Swallowing these materials can cause irritation of the mouth, throat and stomach. Nausea, vomiting and diarrhea may result from ingestion. However, it is unlikely that people working with these materials would swallow them.

**Inhalation:** Breathing the fumes from these materials, particularly when they are heated and/or in an enclosed space may cause headache, nausea, feeling of dizziness or weakness, and shortness of breath. Fumes from these materials can irritate the nose, throat and lungs. Prolonged exposure to high levels of fumes may result in loss of consciousness and in rare instances, death as a result of being unable to breathe.

**Cancer Information:** The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity of asphalt fumes (refined bitumens) in experimental animals, but not in humans. (See Section 11.0 Toxicological Information).



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**Developmental and Reproductive Effects:** Currently no information is available on the potential effects that exposure to these products may have on a person's ability to conceive a child or on the embryonic and fetal development of a child.

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### 4.0 FIRST AID MEASURES

**Eyes:** If this material gets into the eyes, flush the person's eyes with large amounts of water for at least fifteen (15) minutes. Be certain to lift the upper and lower lids to ensure that all of the material is flushed out of the eyes. Obtain immediate medical attention.

**Skin:** Immediately remove any contaminated clothing and wash the affected areas of skin with soap and water. Launder contaminated items of clothing before wearing. If skin irritation or redness persists or develops after exposure, contact a physician.

**Inhalation:** Move the individual to fresh air away from the fumes. If he/she is having difficulty breathing or is not fully conscious, administer oxygen and obtain immediate medical attention.

**Swallowing:** Do not induce vomiting. Vomiting can cause the material to be aspirated into the lungs, causing chemical pneumonitis. This can be fatal. Keep the person warm and quiet. Obtain immediate medical attention.

Note: Seek immediate medical attention for over-exposure.

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### 5.0 FIRE FIGHTING MEASURES

**Flash Point:** 220 - 230° F (Cleveland Tag Open Cup method)  
200 - 210° F (Pensky Martens Closed Cup)

**Explosive Limit:** Unknown      **Flammable Limit:** Unknown

**Extinguishing Media:** Carbon dioxide foam, dry chemical and water fog.

**Fire Fighting Instructions:** A self-contained breathing apparatus with a full-face piece operating in a positive pressure mode may be required. Avoid using a water stream to prevent frothing. 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.

**Fire and Explosion Hazards:** Never use a welding or cutting torch on or near drums of this material (even empty drums) because the material can ignite explosively.

**Hazardous Products of Combustion:** Carbon monoxide and other organic compounds may be formed upon combustion.

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## 6.0 ACCIDENTAL RELEASE MEASURES

**Small Spill:** Absorb liquid with paper, vermiculite or other absorbent material. Use soap and water for final cleanup. Avoid inhaling the vapors or getting the spilled liquid on the skin. People performing cleanup should wear appropriate protective clothing.

**Large Spill:** Eliminate all flames and other potential sources of ignition. Contain the spilled material with a dike and pump any salvageable material into clean containers for reuse. Mix any remaining liquid with sand, vermiculite or other absorbent material and shovel the mixture into containers. Wear protective clothing during the cleanup.

**Waste Disposal Method:** If not contaminated with other materials, spilled product may be mixed with aggregate and used for patching or other maintenance applications. If the spilled material cannot be reused, place it into closed containers and dispose in an approved landfill according to local, state and federal regulations.

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## 7.0 HANDLING AND STORAGE

This product is pump able at temperatures of 170°F and above. For long-term storage, product may be stored at ambient temperatures to minimize the volatilization of petroleum solvent. For the production of SPM Asphalt Cold Mix and for short-term storage, hold the temperature near 200°F. Avoid cycling the temperature through the boiling point of water (212°F) to avoid problems with condensate. Empty containers may contain enough residue to emit vapors or to be combustible. Dispose of used containers according to local, state and federal requirements.

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## 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Respiratory protection should not be required when handling these products in the open air. However, if these materials are being handled in a confined area, wear a respirator with a NIOSH-approved organic respiratory cartridge, or NIOSH-approved air supplied breathing equipment to prevent inhaling fumes. A respirator is only required when working with this material in a confined or inadequately ventilated area. Provide sufficient ventilation (mechanical ventilation such as a general or local exhaust system) to prevent vapors from accumulating and to maintain exposure levels below TLV(s).

**Eye and Skin Protection:** Wear a face shield or safety glasses, impervious clothing, or apron, gloves and boots.

**Hygiene Practices:** Wash hands thoroughly after working with this material. Remove and launder contaminated clothing before wearing. Eye baths and emergency showers should be available for people working with these materials.

**Exposure Guidelines:** The following occupational exposure guidelines are for the major ingredients in this material. The Permissible Exposure Limit (PEL) and the Threshold Limit Value (TLV) are expressed in parts per million (PPM) of the ingredient in the workplace air.



have caused burns and irritation that could have been related to tumor production. Solvent dilutions of different types of asphalt have been evaluated in chronic skin painting studies. Condensates of asphalt fumes diluted in solvent have been evaluated in skin painting studies. The conditions under which these studies were conducted may not be representative of the conditions to which people working with these materials are likely to be exposed. However, exposure to asphalt can produce skin irritation in people who get these materials on their skin.

Extracts of asphalt tested in a modified Ames Assay gave negative or slightly positive findings (mutagenicity index <1.5). Fume condensates derived from heating asphalt to high temperatures (>450° F) were moderately mutagenic (mutagenicity index 4-9). By comparison, fumes generated by heating coal tar pitch were >1000 times more mutagenic in the Ames Assay than asphalt.

**Petroleum Solvent:** IARC has determined that petroleum solvent contains components that may be carcinogenic. Prolonged and repeated applications of petroleum solvent to the skin of laboratory animals have been shown to produce skin tumors. Tumors were produced in association with marked irritation. IARC has classified combustion products of petroleum solvent as probable human carcinogens. Lifetime exposure to these combustion products has been shown to cause cancer in laboratory animals. However, no combustion products are expected to be generated from the intended use of SPM Asphalt Cut Back. Consequently, inhalation of petroleum solvent combustion products is not a relevant exposure for people working with SPM Asphalt Cut Back under normal conditions.

**Hydrogen Sulfide:** This compound may be present as a contaminant in either petroleum asphalt or petroleum solvent. Hydrogen sulfide gas (H<sub>2</sub>S) is toxic by inhalation. Prolonged breathing of 50-100 PPM H<sub>2</sub>S vapors can produce eye and respiratory tract irritation. Higher concentrations (250-600 PPM) for 15-30 minutes can produce headache, dizziness, nervousness, nausea, and pulmonary edema or bronchial pneumonia. Concentrations of 1000 PPM or more will cause immediate unconsciousness and death through respiratory paralysis.

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## 12.0 ECOLOGICAL INFORMATION

Although there is no evidence to suggest that the components of SPM Asphalt Cut Back bioaccumulate in food chains, the heavier molecular weight hydrocarbon components of asphalt and Petroleum Solvent may be persistent under some environmental conditions. Release of these products into surface waters should be avoided.

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## 13.0 DISPOSAL CONSIDERATIONS

Dispose of contaminated or unused material in closed containers according to federal, state and local regulations.

**14.0 TRANSPORT INFORMATION**

DOT Description:

Proper Shipping Name: Elevated temperature liquid, flammable, n.o.s., (with flash point above 37.8°C, at or above its flash point)  
 Hazard Class: 3  
 UN Number: UN 3256  
 Addendum: "Hot" placard when transported above flashpoint of 212° F  
 No placard required when transported below flashpoint of 212°  
 Packing Group: III

**15.0 REGULATORY INFORMATION**

US Federal Regulations

OSHA Hazard Communication Standard (29 CFR 1910.1200):

This product, when heated above its flash point, has been determined to be hazardous as defined in OSHA's Hazard Communication Standard.

EPA Toxic Substances Control Act, TSCA (40 CFR part 710):

All components of this product are in compliance with the inventory listing requirements of TSCA. The following component(s) are listed in the inventory: Hydrogen Sulfide

EPA SARA Title III (Superfund Amendments and Reauthorization Act) – Sections 302, 304, 311, 312, 313:

Section 302 – Extremely Hazardous Substances (40 CFR Part 355):

This product contains the following component(s) identified on Appendix A and B of the extremely hazardous substance list:

--Component--	Reportable --Quantity (Lbs.)--	Threshold Planning --Quantity (Lbs.)—
Hydrogen Sulfide	100	500

Section 304 – Emergency Release Notifications (40 CFR Part 355):

This product contains the following component(s) identified either as an extremely hazardous substance (see Section 302) or a CERCLA Hazardous Substance (40 CFR 302) which in the case of a spill or release may be subject to the reporting requirements under Section 304 of Title III:  
 Hydrogen Sulfide



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Sections 311 and 312 – Material Safety Data Sheet (MSDS) Requirements (40 CFR Part 370):

The following EPA Hazard Categories apply to this product:

### Immediate (Acute) Health Hazard

MSDS's or a list of MSDS's and their hazards (See EPA hazard Categories above) may be required to be submitted to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC), and Local Fire Department per Section 311 requirements.

Per Section 312 requirements, a Tier II or Tier form may be required to be submitted annually to the SERC, LEPC, and LFD if applicable threshold reporting quantities are exceeded. Current Federal Thresholds are:

10,000 pounds or more of an OSHA Hazardous Substance, or  
500 pounds or the threshold planning quantity whichever is less, of an extremely hazardous substance.

Section 313 – Toxic Chemical Release Reporting 940 CFR 372):

This material does not contain ingredients subject to Section 313 of SARA Title III.

<u>State Right-to Know Laws:</u>	<u>Components subject to reporting:</u>	<u>CAS Number:</u>	<u>%Weight:</u>
Connecticut	No component subject to reporting		
Florida	No component subject to reporting		
Illinois	No component subject to reporting		
Louisiana	No component subject to reporting		
Massachusetts	No component subject to reporting		
New Jersey	No component subject to reporting		
Pennsylvania	No component subject to reporting		
California Proposition 65	The required chemical analyses and risk assessments were performed on this product. Results indicate that there are no significant risks (or observable effects), as defined by this statute, associated with this product under conditions of normal use.		





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### 16.0 OTHER INFORMATION

#### NFPA Classification

Health: 1  
Fire: 1  
Reactivity: 1  
Other: -

#### HMIS Classification

Health: 1  
Fire: 1  
Reactivity: 1  
Personal Protection:

#### Hazard Rating

0 - Least  
1 - Slight  
2 - Moderate  
3 - High  
4 - Extreme

#### Comments:

\* See Section 8 of this MSDS for guidance in selection of personal protective equipment.

The information contained in this MSDS is believed to be accurate as of the time that this document was prepared. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical(s) is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely.

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