

# MATERIAL SAFETY DATA SHEET

## S-41 ASPHALT

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** SUMMITVILLE LABORATORIES, INC.

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MINERVA, OH 44657

**INFORMATION PHONE:** 330-868-6463

**EMERGENCY PHONE:** 330-223-1511

**PRODUCT NAME:** S-41 ASPHALT

**PRODUCT NUMBER:** 58009207100000

**UPC NUMBER:**

**PREPARED BY:** Safety Manager

**DATE PREPARED:** 12/17/09

**LAST REVISION:** 1/21/00

**SYNONYMS:** High Purity Asphalt

**PROPER SHIPPING NAME:**

Not regulated when in solid form.

**UN NUMBER:**

**UN NUMBER:** N/A

**HAZARD CLASS:** N/A

**PACKING:** N/A

**HMIS INFORMATION:**

**HEALTH:** 1

**FLAMMABILITY:** 1

**REACTIVITY:** 0

**PROTECTIVE:** B

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%	OSHA PEL	ACGIH TLV
ASPHALT	8052424		N/A	TLV = 5mg/M3 as FUMES
HYDROGEN SULFIDE	7783064		PEL = CEILING = 20 PPM; MAXIMUM PEAK ABOVE CEILING FOR 10 MI	STEL = 15 ppm(21 mg/M3) TLV = 10ppm(14 mg/M3)

### 3. HAZARDOUS IDENTIFICATION

**EMERGENCY OVERVIEW:** This material poses no health hazard in its solid form. Liquid form should be handled as UN 1999, NAERG # 27, Liquid Asphalt/tar, Hazard Class 9, packing group III. Take all precautions against thermal burns and accidental ignition of surrounding materials.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Can cause severe eye irritation

**INHALATION:** Heated product may release asphalt fumes which may cause nose, throat, mucous membrane irritation, nausea, and headaches or dizziness.

**INGESTION:** No hazard in normal industrial use. Swallowing large amounts may cause damage.

**SKIN CONTACT:** Prolonged skin contact with cold material may cause severe dryness, cracking, and/or irritation. Contact with hot material will cause thermal burns. Long term contact can increase skin sensitivity to sun and can discolor skin.

### SIGNS AND SYMPTOMS OF EXPOSURE:

Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, nausea, headache.





#### 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**INGESTION:** If swallowed, do NOT induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Wash affected area with waterless cleanser; then wash with mild soap and water.

#### **AGGRAVATED MEDICAL CONDITIONS:**

Persons with a history of chronic respiratory or skin conditions may be at increased risk of inflammation of their condition from exposure to this product.

#### **SUPPLEMENTAL HEALTH INFORMATION:**

Studies of workers exposed to asphalt have not established a correlation between asphalt and cancer or other lung diseases in humans. This product is petroleum based that contains a variable amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage to laboratory animals in high exposure concentrations.

#### 5. FIRE FIGHTING MEASURES

##### FLAMMABLE PROPERTIES

**FLASH POINT:** +400 F

**FLASH POINT METHOD USED:** Cleveland Open Cup

**AUTOIGNITION:** > 550 F

**LEL:**

**UEL:**

**EXTINGUISHING MEDIA:**

Dry chemical, foam, Co2.

#### **SPECIAL FIRE FIGHTING PROCEDURES:**

Treat as hydrocarbon type fire. Water may be used to cool containers in fire exposed area. Use self-contained breathing apparatus (SCBA) in a sustained fire. Full protective bunker turnout gear should be used by fire fighting forces.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Hot asphalt may ignite flammable materials on contact. Hydrogen sulfide may be released when product is heated. DO NOT direct water on asphalt fires as it may cause violent eruptions and spreading of hot asphalt.

#### **COMBUSTION PRODUCTS:**

Mixtures of carbon monoxide, carbon dioxide, and other hydrocarbons.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Pick up cold material and place in appropriate container(s). Ventilate areas where molten material has been accidentally released, remove sparks or flames to prevent ignition of vapor, and allow it to cool. Material can be removed once cooled and salvageable materials can be recovered.

## 7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

N/A

### OTHER PRECAUTIONS:

N/A

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### RESPIRATORY PROTECTION:

Proper ventilation required for use with hot material. Wear an appropriate cartridge respirator when strong odor and poor ventilation are present.

### VENTILATION:

Controlling airborne concentration below the ACGIH TLV exposure guideline is recommended. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### PROTECTIVE GLOVES:

Wear gloves as appropriate for sensitive skin. Wear thermal protection when handling hot material.

### EYE PROTECTION:

N/A for solid material. Molten material protection should include full face shield and splash goggles.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Where splashing is possible, full chemically resistant protective clothing (e.g., thermal burn protection suit) and boots are required.

### WORK / HYGENIC PRACTICES:

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

### ENGINEERING CONTROLS:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### EXPOSURE GUIDELINES:

N/A

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**SOLUBILITY IN WATER:** N/A

**APPEARANCE AND ODOR:** Black or dark brown, soft solid; Asphaltic odor.

<b>BOILING POINT:</b>	> 700 F	<b>PERCENT VOLATILE:</b>	NIL
<b>VAPOR PRESSURE:</b>	N/A	<b>PH:</b>	
<b>EVAPORATION:</b>	N/A	<b>MOLECULAR WEIGHT:</b>	
<b>POUNDS PER GALLON:</b>		<b>VAPOR DENSITY:</b>	Heavier Than Air
<b>SPECIFIC GRAVITY:</b>	1.0	<b>OTHER PROPERTIES:</b>	
<b>MELTING POINT:</b>			
<b>FREEZING POINT:</b>			

## **10. STABILITY AND REACTIVITY**

### **STABLE:**

Stable

### **INCOMPATIBILITY:**

Oxidizing materials

### **HAZARDOUS DECOMPOSITION OR BY PRODUCTS:**

Hydrogen sulfide and various other hydrocarbons may be released.

### **HAZARDOUS POLYMERIZATION:**

In March 1987 the International Agency for Research on Cancer (IARC) classified bitumens as a group 3 material, "not classifiable as to its Will Not Occur

## **11. TOXICOLOGY INFORMATION**

carcinogenicity to humans".



## 12. ECOLOGICAL INFORMATION

This material is not toxic to animals, plants, fish and other water organisms.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and Local regulations.

## 14. TRANSPORTATION INFORMATION

**DOT CLASS:** Not regulated when in solid form.

**HAZARD CLASS:** N/A

**UN NUMBER:** N/A

**PACKING:** N/A

**GUIDE NUMBER:** N/A

**PROPER SHIPPING NAME:** Not regulated when in solid form.

## 15. REGULATORY INFORMATION

The ingredients in this product are listed in the TSCA inventory as required by law. This material contains some ingredients that are listed in California proposition 65 as causing cancer, birth defects, or other reproductive harm. Clean Air Act: No applicable ingredients. WHMIS/Canada: Not Controlled.

## 16. OTHER INFORMATION

**HMIS INFORMATION: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0 PROTECTIVE: B**

### Disclaimer

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

**Active MSDS statement**