

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT and COMPANY IDENTIFICATION

Manufacturer  
 U.S. PLY, INC.  
 P.O. Box 11740  
 Fort Worth, TX 76110

Non Emergency Information  
 Telephone: U.S. PLY, INC. (866) 787-4759 or (817) 413-0103

Emergency Information  
 Transportation Emergency Telephone: 1-800-424-9300.

Product Name: USP ASPHALT, USP MODIFIED ASPHALT, USP MODIFIED ASPHALT 150, USP MODIFIED ASPHALT PLUS

Chemical Name: Hydrocarbon Mixture

## 2. COMPOSITION (Information on Ingredients)

Component	CAS No	Weight %
Chemical Name (common names)		
Asphalt	64742-93-4	80 - 100
Non-Hazardous Ingredients	N/A	0 - 20
See Section 8 of this MSDS for Exposure Guidelines		

## 3. HAZARDS IDENTIFICATION

Physical Hazards  
**APPEARANCE AND ODOR:** Brown/black viscous liquid with asphaltic odor.

Potential Health Effects  
 May cause toxic effects if inhaled or absorbed through skin. Inhalation or contact with material may irritate or burn skin and eyes. Fire will produce irritating, corrosive and/or toxic gases. Vapor may cause dizziness or suffocation. Runoff from fire control or dilution water may cause pollution.

Exposure Routes  
 Primary: Inhalation (fumes), skin contact (irritant/burn) and eye contact (irritant/burn).

Inhalation: Irritation of the upper respiratory tract may occur. Acute exposure may irritate mucous membranes with tightness in chest, coughing, wheeziness, or congestion.

Skin Contact: Contact with molten asphalt can result in burns.

Absorption: Not applicable

Eye Contact: Contact with molten asphalt with eyes may cause physical damage due to adhesive properties as well as burns.

Ingestion: May cause irritation of the digestive system.

Medical Conditions Aggravated by Exposure  
 Exposure to dust may aggravate pre-existing upper respiratory and lung diseases or conditions.

## 4. FIRST AID MEASURES

Inhalation: If breathing difficulty is experienced, move to a fresh air place. Drink water to clear throat and blow nose to remove irritant. If difficulty persists, seek medical attention.

**Skin Contact:** If material is hot, cool and allow medical personnel to remove clothing. If material is not hot, remove and isolate contaminated clothing and shoes at the site. Immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water.

**Eye Contact:** Do not rub or scratch eyes. Bathe eye immediately with a large amount of water for at least 20 minutes. Seek medical attention immediately.

**Ingestion:** This product is not intended to be ingested. Do not induce vomiting. In case of ingestion seek medical attention immediately.

**5. FIRE FIGHTING MEASURES**

Flash Point: > 450°F (232°C) Asphalt Mixture

Flammable Limits:

Lower Explosive Limit N/A

Upper Explosive Limit N/A

Auto Ignition: N/A

Extinguishing Media: Foam, CO2, dry chemical or water spray

Special Fire-fighting Procedures: Use water to keep fire-exposed containers cool. Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Unusual Fire and Explosive Hazards: May be ignited by heat or flames. Vapors may travel to a source of ignition and flash back. Container may explode in heat or fire. Vapor explosion and poison hazard indoors, outdoors or in sewers. Runoff to sewers may create a fire or explosion hazard. Material may be transported hot.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Do not handle molten asphalt without proper protective equipment. Do not handle near an ignition source.

**Environmental Precautions:** Pick up large pieces of material. Vacuum dusts. If sweeping is necessary, use a dust suppressant such as water. Do not dry sweep dust accumulation. These procedures will help to minimize potential exposures.

**Clean-up Methods:** Comply with and dispose of as specified by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact the local Public Health Department, or the local office of the EPA.

**7. HANDLING AND STORAGE**

**Handling:** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch or walk through spilled material. Stop leak if you can do it without risk. Dike far ahead of liquid spill for later disposal. Absorb or cover with dry earth, sand or other non-combustible material and transfer to container.

**Storage:** Keep away from heat, sparks or open flame.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Read all product instructions before using. Personal protective equipment should include safety eye wear, fire resistant gloves, and long sleeve work clothes to prevent excessive skin contact. No special ventilation systems are required under normal conditions of use in well ventilated areas.

Exposure Guidelines	OSHA	ACGIH
Oxidized Asphalt (64742-93-4))	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA

None of the components in this product are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid (cool), Viscous liquid in molten state.

Appearance: Black/brown

Color: Black/brown

Odor: Asphaltic odor

Specific Gravity: Approximately 1.03 – 1.05 (H<sub>2</sub>O = 1)  
Boiling Point: N/A  
Flash Point: over 450°F (232°C)  
Melting Point: over 165°F – 225°F (74°C - 107°C)  
Self-Flammability: None Established  
Auto-Flammability: None Established  
pH: N/A  
Vapor Pressure: <1  
Vapor Density: NA  
Solubility in Water: Not soluble  
Explosion data: N/A

## 10. STABILITY AND REACTIVITY

### Chemical Stability

This product is a stable material. This product is not reactive.

### Incompatibility

This product will react with strong oxidizing agents, reducing agents, strong acids and alkalis.

### Hazardous Decomposition

Oxides of carbon (carbon monoxide, carbon dioxide, carbon particles, and hydrocarbons) are derived from burning.

### Hazardous Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Dust from this product is an irritant and may cause irritation or scratchiness of the throat, and/or itching in the eyes and skin.

### Carcinogenicity

This product contains oxidized asphalt which is a suspected carcinogen with experimental carcinogenic and tumorigenic data. A moderate irritant. May contain carcinogenic components.

### Component Carcinogenicity

The following components are considered to be carcinogenic by the National Toxicology Program, the International Agency for Research on Cancer, and/or the Occupational Safety and Health Administration:

Asphalt (suspected)

### Additional toxicological Information

Exposure limits are given for reference only.

Asphalt: The International Agency for Research on Cancer (IARC) has stated that studies of workers exposed to asphalt provide inadequate evidence of carcinogenicity. IARC had previously classified asphalt as a Group 3 substance. Animal studies in which high concentrations of asphalt fumes were breathed for extended periods of time did not indicate any cancer effects. Bronchitis and pneumonitis were observed. Two studies where condensed fractions of certain asphalt fume condensates collected for these studies were repeatedly applied to the skin of laboratory animals reported the induction of skin cancers. The asphalt fume condensates collected for these studies were subjected to extremely high temperatures (601°F/316°C) and were heated for seven to ten hours while being continually stirred. This is not typical of any asphalt application. Trace amounts of polynuclear aromatic hydrocarbons (PAHs) may be present in some asphalts and can be generated upon excessive heating, which results in thermal cracking of the asphalt compounds. Some of these PAHs have been identified as having potential carcinogenic and reproductive health effects.

## 12. ECOLOGICAL INFORMATION

Biodegradation:	Not Established
Chemical degradation:	Not Established
Bioaccumulation:	Not Established
Agility:	Not Established
Ecotoxicity influence on Organisms:	Not Established
Ecotoxicity in water:	Not Established
Other toxicity:	Not Established

## 13. DISPOSAL CONSIDERATIONS

Comply with and dispose of as specified by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact the local Public Health Department, or the local office of the EPA.

## 14. TRANSPORTATION INFORMATION

Shipping Information

This product is not classified as a hazardous material for transport.

DOT (Ground): N/A  
Hazard Class: N/A  
DOT Label: N/A  
Air: N/A  
Water: N/A  
Freight Classification: Roofing composition or prepared roofing.

**15. REGULATORY INFORMATION**

US Federal Regulations:

There is no regulation on this product as a whole.

SARA Title III – Sections 302/304:

N/A

SARA Title III – Sections 311/312:

Immediate: yes  
Chronic: yes  
Fire: yes  
Sudden Release of Pressure: no  
Reactive: no

SARA Title III – Sections 313

N/A

**16. OTHER**

NFPA: Fire 1; Health 1; Reactivity 0  
HMIS: Flammability 1; Health 1; Reactivity 0

Prepared by:  
U.S. PLY, INC. Technical Services Department  
P.O. Box 11740  
Fort Worth, TX USA 76110

The information and recommendations contained herein are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information supplied upon the condition that the persons receiving said information will make their own determination as to its suitability for their particular purpose prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, including the merchantability or fitness for a particular purpose are made herein with respect to this information or the product to which information refers.

Information contained herein is deemed to be reliable, conservative and accurate. U.S. PLY, Inc. reserves the right to change the design, specification or any other features at any time, without notice, while otherwise maintaining regulatory compliance.

Issue Date: 1/30/07  
Revised Date: 5/01/08 Revision Disclosure: Addition of new products.