

# 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 #41 ASPHALT PRIMER, USP #330 SBS MODIFIED BITUMEN ADHESIVE, USP #333 MODIFIED FLASHING CEMENT, USP #640 ASBESTOS FREE PLASTIC ROOF CEMENT, USP #643 ASBESTOS FREE FLASHING CEMENT, USP INSULATION ADHESIVE, DURAFLEX #901 PREMIUM SBS MODIFIED ADHESIVE, DURAFLEX #954 PREMIUM SBS MODIFIED FLASHING CEMENT, SAFEWELD APP MODIFIED ADHESIVE, SAFEWELD APP MODIFIED FLASHING CEMENT

Chemical Name: Hydrocarbon Mixture

## 2. COMPOSITION (Information on Ingredients)

Component	CAS No	Weight %
Chemical Name (common names)		
Asphalt, oxidized	8052-42-4	40 – 60
Stoddard solvent (mineral spirits)	8052-41-3	0 – 60*
Volatile Petroleum Solvents	8030-30-6	0 – 60**
Calcium Carbonate	1317-65-3	0 – 25
Cellulosic Fibers	65996-61-4	0 – 7
Hydrated Aluminum – Magnesium Silicate	12174-11-7	0 – 6***
Amine Salt	28701-67-9	0 – 2****
Non-Hazardous Ingredients	N/A	4 – 15
See Section 8 of this MSDS for Exposure Guidelines		

### Additional Component Information

- \* Component of DURAFLEX Adhesives & Flashing Cements, USP Insulation Adhesive, SAFEWELD Adhesive & Flashing Cements.
- \*\* Component of USP #41 Asphalt Primer, USP #330 SBS Modified Adhesive, USP #333 SBS Modified Flashing Cement, USP #640 Asbestos Free Plastic Roof Cement, USP #643 Asbestos Free Flashing Cement.
- \*\*\* Component of USP #640 Asbestos Free Plastic Roof Cement, USP #643 Asbestos Free Flashing Cement.
- \*\*\*\* Component of USP #41 Asphalt Primer, USP #330 SBS Modified Adhesive, USP #333 SBS Modified Flashing Cement, USP #640 Asbestos Free Plastic Roof Cement, USP #643 Asbestos Free Flashing Cement, DuraFlex 901 Premium SBS Modified Adhesive, DuraFlex #954 Premium SBS Modified Flashing Cement, SafeWeld APP Modified Adhesive, SafeWeld APP Modified Flashing Cement.

## 3. HAZARDS IDENTIFICATION

Physical Hazards  
**APPEARANCE AND ODOR:** Black semi liquid or mastic. Slight asphaltic odor.

Combustible liquid. Remove sources of ignition.

Inhalation of fumes may cause headache, drowsiness, nausea, and upper respiratory irritation. Individuals affected should be moved to fresh air. Skin irritation may be treated by gently washing affected area with soap and warm water. Eye irritation may be treated by flushing eyes with large amounts of water. If irritation persists, seek medical attention.

### Potential Health Effects

Prolonged and excessive exposures to solvent fumes can result in nausea and dizziness and central nervous system damage. Asphalt and its fumes can irritate skin, eyes, and upper respiratory tract.

This product contains a small amount of polyaromatic hydrocarbons which have been shown to cause cancer and respiratory damage in laboratory animals. Some asphalts and some asphalt solutions have produced skin cancer in laboratory animals. No association has been

established between industrial exposure and cancer. (IRAC\*, PART 4, VOLUME 35). Due to size of the particles, minimal exposure to airborne dust is expected.

**Exposure Routes**

Primary: Inhalation (breathing fumes), skin contact and eye contact.

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

Solvent fumes: Prolonged and excessive exposures to solvent fumes may result in nausea, dizziness and central nervous system damage.

Skin Contact: Temporary irritation (itching) or redness may occur. Drying of skin or defatting effect.

Absorption: Not applicable

Eye Contact: May irritate eyes. Because of its adhesive features, the asphalt contact with eyes may cause physical damage due to adhesive properties as well as severe irritation and pain.

Ingestion: Ingestion of this product is not likely to occur under normal conditions of use. No information available.

**Medical Conditions Aggravated by Exposure**

Exposure to fumes may aggravate pre-existing upper respiratory, skin, eye and CNS (central nervous system) and lung diseases or conditions.

**4. FIRST AID MEASURES**

Inhalation: If breathing difficulty is experienced, move to a fresh air place. If difficulty persists, seek medical attention.

Skin Contact: Wash gently with soap and warm water. Do not attempt to remove asphalt immediately. Cover with petroleum jelly (Vaseline). Remove the asphalt has softened. If irritation develops, use a delicate cream. If symptoms persist, in case of redness or blistering seek medical attention for burn treatment.

Eye Contact: Do not rub or scratch eyes. Bathe eye immediately with a large amount of water for at least 15 minutes. Seek medical attention immediately.

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

Note: 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: 105°F – 110°F (40.5 - 43°C)

Flammable Limits:

Lower Explosive Limit 0.9

Upper Explosive Limit 6

Auto Ignition: N/A

Flammability Classification: Combustible

Rate of Burning: Not Established

Extinguishing Media: Foam, CO2, dry chemical.

Special Fire-fighting Procedures: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

NFPA Ratings for Health – Flammability – Reactivity are: 1 – 2 – 1. Protective Equipment: B

**6. ACCIDENTAL RELEASE MEASURES**

Environmental Precautions: Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth or other suitable absorbent. Prevent entry of material into sewers, or other water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposures below the applicable exposure limit. Shovel absorbed material into containers in well-ventilated area.

Clean-up Methods: This product, as supplied, is not regulated as a hazardous waste 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: Use protective equipment as described in Section 8 of this material safety data sheet when handling uncontained material. Avoid direct exposure to very high heat or flame.

Storage: Keep away from heat, sparks, pilot lights, static electricity and open flame. Containers exposed to elevated temperatures may develop pressure build-up and rupture. Recommended storage temperature is between 55°F to 95°F (12.7°C to 35°C). Protect from freezing.

**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
Stoddard Solvent (mineral spirits) 8052-41-3	100 ppm TWA 525 mg/m <sup>3</sup> TWA	100 ppm TWA
Volatile Petroleum Solvents 8030-30-6	100 ppm TWA 400 mg/m <sup>3</sup> TWA	100 ppm TWA 400 mg/m <sup>3</sup> TWA
Calcium Carbonate (1317-65-3)	Total Dust 15 mg/m <sup>3</sup> TWA Respirable Dust: 5 mg/m <sup>3</sup>	Total Dust 10 mg/m <sup>3</sup> TWA Respirable Dust: 5 mg/m <sup>3</sup>

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: Thin to Thick Liquid  
 Appearance: Black Liquid  
 Color: Black  
 Odor: Asphaltic odor/solvent odor  
 Specific Gravity: Approximately 0.9 – 1.3 (H2O = 1)  
 Boiling Point: Over 310°F – 400°F (154°C – 204°C)  
 Flash Point: Over 105°F – 110°F (40.5°C – 43°C)  
 Melting Point: N/A  
 Self-Flammability: None Established  
 Auto-Flammability: None Established  
 pH: N/A  
 Vapor Pressure: 0.8 – 4.6 mm Hg (68°F/20°C)  
 Vapor Density: >1  
 Solubility in Water: Not soluble  
 Explosion data: N/A  
 VOC: 250 – 500 g/L (see below)

**Additional VOC Information:**

USP #41 Asphalt Primer	500 g/L
USP #330 SBS Modified Adhesive	300 g/L
USP #333 SBS Modified Flashing Cement	300 g/L
USP #640 Asbestos Free Plastic Roof Cement	300 g/L
USP #643 Asbestos Free Flashing Cement	300 g/L
USP Insulation Adhesive	300 g/L
DuraFlex #901 Premium SBS Modified Adhesive	<300 g/L
DuraFlex #954 Premium SBS Modified Flashing Cement	<300 g/L
SafeWeld APP Modified Adhesive	<200 g/L
SafeWeld APP Modified Flashing Cement	<200 g/L

**10. STABILITY AND REACTIVITY**

Chemical Stability

This product is a stable material..

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

There is no data for this product as a whole.

Component Carcinogenicity

There is no data for components of this product.

Additional toxicological Information

Solvents: Moderate irritation of skin, eyes, and upper respiratory tract on prolonged, repeated contact. Dermatitis and defatting of the skin. Pre-existing eye, skin, and pulmonary disorders may be aggravated by exposure to this product. Reports have associated permanent brain and nervous system damage with prolonged (>12-14 yr) occupational overexposure to high levels of solvents.

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**

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal. Empty containers must be handled with care due to product residue. Decontaminate empty containers prior to 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 classified as a combustible liquid, N.O.S. (Asphalt).

UN/NA:	NA1993
Packing Group:	III
DOT (Ground):	N/A
Hazard Class:	Combustible Liquid
DOT Label:	N/A
Water:	Adhesives, containing a flammable liquid – Division 3

Freight Classification: Flammable Liquid – Division 3

**15. REGULATORY INFORMATION**US Federal Regulations:

The following designations apply to this product:

SARA Title III:

Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard. None of the products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

**16. OTHER**

NFPA: Fire 1; Health 2; Reactivity 1  
HMIS: Flammability 1; Health 2; Reactivity 1

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