

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 (877) 628-7759 or (817) 413-0103

Emergency Information

Transportation Emergency Telephone: CHEMTREC 1-800-424-9300. The products listed below are registered by the manufacturer, U.S. PLY, INC.

Product Name: USP APP 160S, USP APP 160M, DURAWELD APP BASE, DURAWELD 4S APP, DURAWELD 5S APP, DURAWELD 4M APP, DURAWELD 4MFR APP, SAFEWELD APP BASE, SAFEWELD X4S APP, SAFEWELD X4M APP, SAFEWELD X4FR APP, SAFEWELD 180S APP, SAFEWELD 180M APP, SAFEWELD 180FR APP

Chemical Name: Asphalt Mixture/Roll Roofing

2. COMPOSITION (Information on Ingredients)		
Component	CAS No	Weight %
Chemical Name (common names)		
Asphalt	8052-42-4	40-60
Crystalline Silica (Sand)	14808-60-7	1-5
Talc	14807-96-6	1-4
Non-Hazardous Ingredients	N/A	36-49
See Section 8 of this MSDS for Exposure Guidelines		

3. HAZARDS IDENTIFICATION

Physical Hazards

APPEARANCE AND ODOR: Black sheet in roll form. Surfaces may include roofing granules, slate, sand, talc or film. Slight asphaltic odor.

Under normal use conditions, this product is not expected to create any unusual emergency hazards.

Inhalation of dust from the product may cause temporary irritation and/or congestion. 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

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 dust), skin contact and eye contact.

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

Chronic exposure to silica may cause limitation of expansion of the chest, emphysema. Chronic exposure to talc may cause cough, pneumoconiosis.

Skin Contact: Temporary irritation (itching) or redness may occur. Contact with molten asphalt can result in burns.

Absorption: Not applicable

Eye Contact: May irritate eyes. Because of its adhesive and temperature features, the molten asphalt contact 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 dust. If difficulty persists, seek medical attention.
- Skin Contact: Wash gently with soap and warm water. For molten asphalt contact, cool with ice or 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. Dust particles may cause the eye to be scratched. Bath eye immediately with a large amount of water for at least 15 minutes. If irritation persists, seek medical attention immediately.
- Ingestion: This product is not intended to be ingested. In case of ingestion seek medical attention immediately.

5. FIRE FIGHTING MEASURES

- Flash Point: 570°F (+200°C) Asphalt Blend Portion
- 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: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Unusual Fire and Explosive Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: N/A

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: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conversation 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 or open flame. Store standing upright on end. Material should be kept dry, and protected from the elements. Recommended storage temperature is between 55°F to 95°F (°C to °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
Crystalline Silica (containing no asbestos) 14808-60-7	Respirable Dust: 0.1 mg/m ³ TWA	Respirable Fraction: 0.01 mg/m ³ TWA
Talc (14807-96-6)	Respirable Dust: (Less than 1% crystalline silica): 2 mg/m ³ TWA ('Silicates')	Respirable fraction: 2mg/m ³ TWA (Particulate matter containing no asbestos and <1% crystalline)

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
 Appearance: Various colors and surfaces. Thin black asphaltic roll roofing
 Color: Smooth material is black. Mineral material varies in colors
 Odor: Asphaltic odor
 Specific Gravity: Approximately 1.2 – 1.6 (H2O = 1)
 Boiling Point: over 600°F (°C)
 Flash Point: over 570°F (°C)
 Melting Point: over 250°F (°C)
 Self-Flammability: None Established
 Auto-Flammability: None Established
 pH: N/A
 Vapor Pressure: N/A
 Solubility in Water: Not soluble
 Explosion data: N/A
 VOC: 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

There is no data for this product as a whole.

Component Carcinogenicity

Crystalline Silica (14808-60-7) ACGIH: A2 – Suspected Human Carcinogen
 NTP: Known Carcinogen (Select Carcinogen)
 IARC: Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources)
 (Group 1 carcinogenic to humans)

Talc (14807-96-6) ACGIH: A4 – Not Classifiable as a Human Carcinogen
 IARC: Supplement 7, 1987; Monograph 42, 1987 (Group 3 not classifiable)

Additional toxicological Information

This material is in a solid form; therefore, exposures to hazardous dusts or fumes are not expected to occur. 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.

Crystalline Silica: The International Agency for Research on Cancer (IARC) has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Several studies have been conducted to determine the risk of cancer to workers exposed to dusts which contain crystalline silica. However, these studies did not consider other factors or elements that workers may be exposed to. Therefore, the causes of the excess deaths due to cancer could not be precisely determined. Further studies are being conducted to determine the risk of cancer when working with crystalline silica products. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease.

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. 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:

None of this 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 1; Reactivity 0
HMIS: Flammability 1; Health 1; Reactivity 0

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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.

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