

MATERIAL SAFETY DATA SHEET

SECTION 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 ALUMAMAX ROOF COATING

Chemical Name: Hydrocarbon Mixture

SECTION 2 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or Greater, Carcinogens 0.1% or Greater)	CAS No.	Weight %* (+/- 2)
Asphalt Base	8052-42-4	<37%
Volatile Petroleum Solvents	64742-95-6	<32%
Aluminum Paste, leafing type	7429-90-5	<18%
Fibers, natural (non-asbestos)	9004-34-6	<12%
Dessicant	63231-67-4	<1%

SECTION 3 - HAZARDS IDENTIFICATION

Physical Hazards:

APPEARANCE AND ODOR: Metallic silver, slight solvent odor

Potential Health Effects:

Irritating to eyes, respiratory system and skin.

Exposure Routes:

Primary: Inhalation, skin contact and eye contact.

Inhalation: Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Skin Contact: Contact with the skin may cause irritation, which may cause the following symptoms: reddening, swelling, rash, scaling or blistering. Cured product is difficult to remove from skin. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Absorption: Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Eye Contact: Contact with the eyes can cause tearing, reddening and swelling. If left untreated, corneal damage can occur, and injury is slow to heal.

Ingestion: Swallowing small amounts of this product during normal use is not likely to cause any adverse health effects. Ingestion of larger amounts can result in corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Chronic Effects: As a result of previous repeated overexposure or a single large dose, certain individuals may develop headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure. Repeated/continuous exposure can cause: chemical pneumonia, liver/kidney damage.

Read the entire MSDS for a more thorough assessment to the hazard information on this product.

SECTION 4 – FIRST AID MEASURES

- General: In case of accident or if you feel unwell, seek medical advice IMMEDIATELY. (Show the product label where possible)
- Inhalation: Remove victim from exposure to well ventilated area. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing.
- Skin Contact: Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.
- Eye Contact: Immediately flush eyes running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Consult a physician IMMEDIATELY.
- Ingestion: Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

Note to Physicians: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

SECTION 5 – FIRE-FIGHTING MEASURES

Flash Point: >100°F and below 200°F Method Used: NFPA

Auto-Ignition Temperature: > 400°F

Flammable Limits In Air % by Volume:
(Lower): 0.9% (Upper): 6.0%

Extinguishing Media: Use foam, dry chemical, or water.

Unusual Fire and Explosion Hazards: Aluminum may react violently with water and elements of the Halon chemical family. It may continue to burn under a crust.

Fire Fighting Procedures: DO NOT USE HALON OR WATER! Allow to become cool before disposal. Class D extinguisher may be needed for the aluminum.

Fire Fighting Protective Equipment: Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

For major spills call CHEMTREC (800-424-9300).

Spills, Leaks, or Releases: Remove all sources of ignition. Ventilate area. Contain the spilled material and then cover with a loose, absorbent material such as oil-dry, vermiculite, sawdust or fuller's earth. Shovel waste material into proper waste containers. In case of large spill, dike the area to prevent this material from entering water systems or sewers. Wash the contaminated areas with hot soapy water thoroughly. Ventilate area to remove vapors. (See section 12: Disposal Considerations)

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid breathing aerosols, mists and vapors. Avoid prolonged or repeated skin contact (See Section 8—Exposure Control for details)

Storage Requirements: Containers should be tightly sealed to prevent moisture contamination and stored indoors in a cool well-ventilated area. Do not reseal if contamination is suspected. Keep away from heat, sparks and open flame. Never use welding or cutting torch on or near any container (even empty) as an explosion can occur. Do not expose to high temperatures for any length of time.

Storage Temperature: Avoid storage above 100°F.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

PREVENTATIVE MEASURES:

Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or Greater, Carcinogens 0.1% or Greater)	CAS No.	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Asphalt Base	8052-42-4	<37%	5mg/M ³	5mg/M ³	Ceiling of 10mg/M ³
Volatile Petroleum Solvents	64742-95-6	<32%	100ppm	350mg/M ³	Max. 3 hr., 1,800mg/M ³
Aluminum Paste, leafing type	7429-90-5	<18%	As Dust		10mg/M ³
Fibers, natural (non-asbestos)	9004-34-6	<12%	As Dust		10mg/M ³
Dessicant	63231-67-4	<1%	10mg/M ³		10mg/M ³

Work/Hygienic Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverage should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of "Industrial Ventilation, a manual of Recommended Practice."

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hand Protection: Chemical resistant gloves, such as natural rubber, or polyvinyl alcohol. Cover as much skin as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

Respiratory Protection: Do not breathe aerosols or vapors. If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in the work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
Boiling Point:	313°F	Specific Gravity (H ₂ O = 1):	>1.0
Vapor Pressure (mm Hg and Temperature):	ND	Melting Point:	ND
Vapor Density (Air = 1):	ND	Evaporation Rate (Butyl Acetate = 1):	ND
Solubility in Water:	Insoluble	Water Reactive:	See Fire Section
Appearance and Odor: Silver color, viscous liquid, petroleum odor when thoroughly stirred.			

SECTION 10 - STABILITY AND REACTIVITY	
Stability: Stable <input checked="" type="checkbox"/> Unstable	Conditions to Avoid: Keep from heat, sparks, open flame
Incompatibility (Materials to Avoid): Acids, caustics, oxidizers	
Hazardous Decomposition Products: Carbon oxides, nitrogen oxides	
Hazardous Polymerization: <input checked="" type="checkbox"/> May Occur <input type="checkbox"/> Will Not Occur	Conditions to Avoid: Water, containers open to air (moisture).

SECTION 11 – TOXICOLOGICAL INFORMATION

Potential Health Effects:

May aggravate pre-existing respiratory and skin disorders.

Calcium Carbonate:

CAS No. 471-34-1: LC50 Rat 4HR; LD50 Rat

Inhalation:

Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may cause overexposure symptoms, such as headache, nausea, and irritation of nose and throat.

Skin Contact:

Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin adsorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Eye Contact:

Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Ingestion:

Swallowing small amounts of this product during normal use is not likely to cause any adverse health effects. Ingestion of larger amounts can result in corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

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.

SECTION 12 – ECOLOGICAL INFORMATION

No data is available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Liquid waste must be disposed of in accordance with Federal, state and local regulations. Incineration is the preferred method. For further, information contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-434-9300 or 202-382-3000). Chemical waste, even small quantities should never be poured down drains, sewers or waterways.

SECTION 14 – TRANSPORT 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.
Transportation Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)

SECTION 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

SECTION 16 - OTHER

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

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