

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

U.S. PLY, INC.
P.O. Box 11740
Fort Worth, TX 76104

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: DURASTAR SEAM KOTE

Product Use: Acrylic Roof Coating

SECTION 2 – COMPOSITION (INFORMATION OF INGREDIENTS)

Reportable Components	CAS Number	Weight Percent (+/-2%)
Aluminum Hydroxide	21645-51-2	15-30
Calcium Carbonate	1317-65-3	10-20
Clorothalonil	1897-45-6	0.1 – 0.5
Ethyl Glycol	107-21-1	1 - 5
Titanium Dioxide	13463-67-7	5-10

SECTION 3 – HAZARDS IDENTIFICATION

Physical Hazards:

APPEARANCE AND ODOR: Creamy, white liquid, paint-like odor.

No severe or acute health hazards are known to be associated with the use of this product. Avoid inhalation of heated vapors or spray mists. Avoid direct skin and eye contact may cause irritation. Common irritation symptoms-headache, nausea, nose and throat irritation-may result from overexposure. Ingestion may cause gastric distress. Inhalation may cause irritation to the respiratory tract.

Potential Health Effects:

May aggravate pre-existing respiratory and skin disorders.

Exposure Routes:

Primary: Inhalation, skin contact and eye contact.

- 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.
- 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:** 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. May cause liver and kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. 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/Carcinogenicity Effects: This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 (Toxicological Information) for more details.

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)
- Eye:** In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
- Skin:** Remove contaminated clothing and shoes. Wash affected areas with soap and water.
- Ingestion:** Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim.
- Inhalation:** Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. Contact a physician if symptoms develop.

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: > 212 °F

Flash Point Method: Setaflash

Lower Explosive Limit: not available

Upper Explosive Limit: not available

Fire And Explosion Hazards

Product is not considered flammable or combustible. Products of combustion include compounds of carbon, hydrogen, oxygen, aluminum and zinc, including carbon monoxide.

Extinguishing Media

Carbon dioxide, water, water fog, dry chemical, chemical foam.

Fire Fighting Instructions

Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Firefighters should wear self-contained breathing apparatus and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations. Avoid runoff to waterways and sewers.

SECTION 7 – HANDLING AND STORAGE

Handling And Storage Precautions: Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Protect from physical damage. Protect from extreme temperatures. Keep out of reach of children. (See Section 8—Exposure Control for details)

Storage Requirements: Keep containers properly sealed and when stored indoors, in a well-ventilated area.

Storage Temperature: Avoid storage above 100°F. **Do not freeze.**

SECTION 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
Aluminum Hydroxide (21645-51-2)	TWA: 15 mg/m ³ (as aluminum metal) (total dust) TWA: 5 mg/m ³ (as aluminum metal) (respirable dust)	TLV-TWA: 10 mg/m ³ (as aluminum metal)
Ethylene Glycol (107-21-1)	N/A	TLV-CEILING 100 mg/m ³
Calcium Carbonate (471-34-1)	Total Dust 15 mg/m ³ TWA Respirable Dust: 5 mg/m ³	Total Dust 10 mg/m ³ TWA Respirable Dust: 5 mg/m ³
Titanium Dioxide (13463-67-7)	Total Dust 15 mg/m ³ TWA Respirable Dust: 10 mg/m ³	Total Dust 15 mg/m ³ TWA Respirable Dust: 10 mg/m ³

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

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.

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: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released. 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/Face Protection: Safety glasses with side shields or goggles recommended.

Skin Protection: Use with chemical-protective gloves to prevent skin contact.

Respiratory Protection: This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respirator with organic vapor cartridge and particulate filter or supplied air respirator. Respirator use may be required due to secondary operations such as mixing, spraying, sanding, buffing, etc.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Creamy, white liquid
Odor: Paint-like odor
Chemical Type: Mixture
Physical State: Liquid

Original: 07/13/2010
 Revision: 01/25/2011

Boiling Point: 212 °F
Specific Gravity: DuraSTAR Seam Kote = 1 .48
Vapor Pressure: 7 60 @ 212°F
Vapor Density: > 1
pH Factor: 9 .0-9.5
Solubility: dispersible
VOC: < 50 grams / liter
Specific Gravity: USP UltraStar Hi Reflect Coating = 1.30
Evaporation Rate: Slower than Ether

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions To Avoid: (Stability) Extreme temperatures
Incompatible Materials: Strong oxidizers, strong acids
Hazardous Decomposition Products: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, aluminum and zinc fumes and smoke may be produced.
Conditions To Avoid (Polymerization): none

SECTION 11 – TOXICOLOGICAL INFORMATION

Chronic/Carcinogenicity: IARC has concluded that the following chemicals in this product are possibly carcinogenic to humans (Group 2B): titanium dioxide, chlorothalonil
Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

Miscellaneous Toxicological Information: Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

Ingredient(s) – Carcinogenicity: Chlorothalonil. Listed In The IARC Monographs

Ingredient(s) - Toxicological Data: Calcium Carbonate
LD50 (oral-rat) : 6450 mg/kg
Chlorothalonil
LD50 (oral-rat) - 4200 mg/kg
LD50 (dermal-rabbit) - >20,000 mg/kg
Ethylene Glycol
LD50 (oral, rat): 5.89 g/kg
LD50 (dermal, rabbit): 9.5 g/kg
Titanium Dioxide:
LC50 Rat 4HR; LD50 Rat

SECTION 12 – ECOLOGICAL INFORMATION

Do not allow into any sewer, on the ground, or into any body of water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Liquid waste must be disposed of in accordance with Federal, State and local regulations. Incineration is the preferred method. In its cured (solid) form, this product is considered non-hazardous, and can usually be land filled. 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). Chemical waste, even small quantities should never be poured down drains, sewers or waterways. Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

SECTION 14 – TRANSPORT INFORMATION

DOT: Not Regulated
Transportation Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)

SECTION 15 – OTHER INFORMATION

Ingredient(s) - U.S. Regulatory Information
Chlorothalonil
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

Ethylene Glycol
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

State Regulations

Warning: This product contains substances known to the state of California to cause cancer.

Ingredient(s) - State Regulations

Calcium carbonate

Pennsylvania - Workplace Hazard

Chlorothalonil

New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

California - Proposition 65

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Ethylene Glycol

New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

Pennsylvania - Workplace Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

Titanium Dioxide

New Jersey - Workplace Hazard

Pennsylvania - Workplace Hazard

New York City - Hazardous Substance

TSCA (Toxic Substances Control Act) Regulations: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

NFPA: Health 1; Flammability 0; Reactivity 0

HMIS: Health 1; Flammability 0; Reactivity 0; Protection X