

SAFETY DATA SHEET

SDS# 1011
SDS Date: May 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: USP 421 NON-FIBERED ALUMINUM ROOF COATING

CAS #: Mixture

Generic Name: Aluminum Roof Coating

Chemical Name: Coating Mixture (Article)

Chemical Family: Organic solvents and additives

Recommended Use: Used as a reflective roof coating for many types of asphaltic and metal roofs.

Recommended Restrictions: For exterior use only. Do not use indoors. Adequate ventilation recommended.

Supplier Information:

U.S. PLY, INC.
 P.O. Box 11740
 Fort Worth, TX 76110
 (866) 787-4759 or (817) 413-0103
 Internet Website: www.usply.com
 Email: technical@usply.com

Toll Manufacturer Location:

R.M. Lucas Company
 3211 South Wood Street
 Chicago, IL 60608
 (773) 523-4300

Emergency Telephone Number

Company Phone: (817)-413-0103
 Call Chemtrec Day or Night: 1-800-424-9300

Trade Name: USP® 421 NON-FIBERED ALUMINUM ROOF COATING (aka Lucas628)

2. HAZARDS IDENTIFICATION

Physical Hazards:

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Flammable liquids	Category 3
Health Hazards: Specific target organ Toxicity (repeated exposure):	Category 1
Aspiration toxicity:	Category 1

Environmental Hazards: Not classified

OSHA Defined Hazards: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements:



Appearance Viscous
 Danger

Physical State: Liquid

Odor: Solvent (Mineral Spirits)

Signal word:

Hazard Statements: May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Flammable liquid and vapor

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. Keep container tightly closed when product is not in use. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Response: IF exposed or concerned: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction

Storage: Store in well ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations See section 13 of this SDS for disposal instructions.

Hazards not otherwise classified (HNOC): None known

Supplemental Information:

• toxic to aquatic life with long lasting effects.
 Unknown acute toxicity 20.943825% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION INFORMATION ON INGREDIENTS			
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Chemical Name	Common Name and synonyms	CAS #	Weight - %
Mineral Spirits (with < 0.1% Benzene)	Mineral Spirits	8052-41-3	30-40
Asphalt (at Ambient Temperature)	Asphalt	8052-42-4	20-30
Aluminum Powder	Aluminum Powder	7429-90-5	10-20
Calcium Carbonate	Limestone	1317-65-3	10-20
Diatomite	Diatomite	61790-53-2	0-10
Naptha, petroleum, hydro-desulfurized heavy	Naptha	64742-82-1	0-10
Nonane	Nonane	111-84-2	0-10
Trimethyl Benzene (mixed Isomers)	Trimethyl Benzene (mixed Isomers)	2551-13-7	0-10
Non Hazardous Ingredients		NE	NE
NE = Not Established			

4. FIRST AID MEASURES

General Advice: Contains petroleum distillate. Harmful or fatal if swallowed. Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Inhalation: Move victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

Skin Contact: Wash off with soap and plenty of water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation occurs: Get medical advice/attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Aspiration may cause pulmonary edema and pneumonitis. If ingestion of a large amount does occur, call a poison control center immediately.

Self-protection of first aider: Pay attention to self-protection!

Most important symptoms /effects, acute and delayed indication of immediate medical and special treatment needed:
 In case of shortness of breath, give oxygen. Symptoms may be delayed. May cause eye and skin irritation.

General information: IF exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Physicians note: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, dry powder, CO2 or sand. Use foam or water fog as a last resort.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Sealed container may rupture/burst when heated or exposed to excessive heat.

Hazardous combustion products: Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

Explosive data:

Sensitivity to Mechanical Impact: Not Sensitive
 Sensitivity to Static Discharge: May be ignited by heat, sparks, or flames.

Special protective equipment and precautions for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural fire-fighters protective clothing will only provide limited protection.

Fire-fighting

Equipment instructions:

In case of fire and/or explosion do not breathe fumes. Fire-fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage.

Specific methods:

In the event of fire, cool tanks with water spray. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Remove sources of ignition. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Use personal protection recommended in Section 8.

Methods and materials for containment and cleaning up:

Dike far ahead of spill for later disposal. Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite followed with plastic sheet to minimize spreading or contact with rain. Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13). Prevent product from entering drains. Never return spills in original containers for re-use.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Environmental precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information.

7. HANDLING AND STORAGE

Precautions for safe handling:

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash thoroughly after handling. Do not empty into drains.

Conditions for safe storage, including any incompatibilities:

The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep container tightly closed. Use care in handling/storage. Incompatible with strong acids and strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Read all product instructions before using. Personal protective equipment should include safety eye wear, chemical resistant gloves, and long sleeve work clothes to prevent excessive skin contact.

Occupational Exposure Limits

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Spirits (with < 0.1% Benzene) (CAS 8052-41-3)	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³
Asphalt at ambient temperature (CAS 8052-42-4)	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Aluminum Powder 7429-90-5	TWA: 1 mg/m ³ respirable fraction	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ Al Aluminum	TWA: 5 mg/m ³ Al

Calcium Carbonate (CAS 1317-65-3)	-	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 15 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Diatomite (CAS 61790-53-2)	-	(vacated) TWA: 6 mg/m ³ silica, amorphous <1% Crystalline silica : (80)/(/% SiO ₂) mg/m ³ TWA TWA: 20 mppcf	
Nonane (CAS 111-84-2)	TWA: 200 ppm	(vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m ³	TWA: 200 ppm TWA: 1050 mg/m ³
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m ³	-

Biological limit values: No biological exposure limits noted for the ingredient(s).
 Appropriate engineering controls: Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of solvent vapors. Ventilation must be sufficient to maintain solvent vapor concentrations below the TWA limits outlined above.

Individual protection measures, such as personal protective equipment:

- Eye/face protection: Wear safety glasses with side shields (or goggles) are recommended.
- Hand protection: Wear protective gloves and protective clothing that is resistant to chemical penetration.
- Skin protection: Wear protective gloves and protective clothing that is resistant to chemical penetration.
- Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Thermal hazards: n/a

General hygiene considerations:

When using do not smoke. When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
 Physical State: Liquid
 Form: Viscous
 Color: Aluminum (Silver)
 Odor: Solvent (mineral spirits) and asphaltic odor.
 Odor threshold: 1-30 PPM. Odor thresholds vary greatly. Do not rely on odor threshold alone to determine potentially hazardous substances.
 pH: n/a
 Melting point: n/a
 Freezing point: -94°F (-70°C)
 Boiling point: > 310°F (154°C)
 Flash point: > 105.0°F (40.5°C) Setaflash
 Evaporation rate: 0.1 Butyl acetate = 1
 Flammability (solid, gas): n/a
 Flammability Limits: Lower/upper %: 1.6/7.0
 Explosive Properties: Vapor accumulation could flash or explode if ignited.
 Oxidizing Properties: None
 Vapor Pressure: 0.3 (kPa) @ 20°C
 Vapor Density: 5.3 where: air = 1 @ 20°C
 Solubility in Water: Insoluble
 Solubility in other solvents: Soluble in aromatic and aliphatic solvents.
 Partition coefficient (n-octanol/water): n/a
 Auto-ignition temp: 626°F (330°C)
 Decomposition temp: n/a
 Kinematic Viscosity: n/a
 Dynamic Viscosity: n/a
 Softening Point: n/a
 Molecular Weight: n/a
 VOC Content (%): < 440 g/l
 Density: 8.0 – 8.4 lbs/gal
 Specific gravity: 0.98

10. STABILITY AND REACTIVITY

Reactivity: n/a
 Chemical Stability: This product is stable under normal temperature conditions.
 Possible hazardous reactions: Hazardous polymerization will not occur.
 Conditions to avoid: Heat, flames and sparks.
 Incompatible materials: Strong acids and strong oxidizing agents.
 Hazardous decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiates.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Product Information: Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.
 Ingestion: If swallowed, do not induce vomiting. Get medical attention immediately. However, ingestion is not likely to be a primary route of occupational exposure.
 Inhalation: Avoid breathing vapors or mists. May cause irritation to the respiratory system. However, this product does not currently meet the criteria for classification.
 Skin contact: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
 Eye contact: Avoid contact with eyes. Causes eye irritation.
 USP 421 Non-Fibered Aluminum Roof Coating (CAS Mixture) aka Lucas628

Component Information:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at Ambient Temperature) (CAS 8052-42-4)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Naptha, petroleum, hydro de-sulfurized heavy (CAS 64742-82-1)	= 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-
Nonane (CAS 111-84-2)	-	-	= 3200 ppm (Rat) 4 h
Trimethyl Benzene (mixed isomers) (CAS 2551-13-7)	= 8970 mg/kg (Rat)	-	-

* Estimates for product may be based on additional component data not shown.

Information on toxicological effects:

Symptoms: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Can cause skin irritation.
 Serious eye damage /eye irritation: Not classified. Contact with eyes may cause physical damage due as well as severe irritation and pain.
 Corrosivity: Not classified.
 Respiratory sensitization: May cause sensitization of susceptible persons.
 Skin sensitization: Irritating to skin.
 Germ cell mutagenicity: Contains a known or a suspected mutagen.
 Carcinogenicity: The table below indicates whether each agency (ACGIH, IARC, NTP or OSHA) has listed any ingredient as a carcinogen or a potential carcinogen.

IARC Monographs, Overall Evaluation of Carcinogenicity

Component Name	ACGIH	IARC	NTP	OSHA (29 CFR 1910.1001-1050)
Asphalt (at Ambient Temperature) (CAS 8052-42-4)	-	2B	-	-
Mineral Spirits (CAS 8052-41-3)	-	3	-	-
Diatomite (CAS 61790-53-2)	-	2A	-	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)		IARC (International Agency for Research on Cancer)	
A1	Known Human Carcinogen	Group 1	Carcinogenic to Humans
A2	Suspected Human Carcinogen	Group 2A	Probably Carcinogenic to Humans

A3	Animal Carcinogen	Group 2B	Possibly Carcinogenic to Humans
A4	Not Classified as a Human Carcinogen	Group 3	Not Classifiable as a Human Carcinogen
NTP (National Toxicology Program)		OSHA (Occupational Safety and Health Administration of the US Department of Labor)	
Known	Known Carcinogen	X	Present
Reasonably Anticipated	Reasonably Anticipated to be a Human Carcinogen		

Component Information: * The IARC Monograph (Vol. 103, 2013, Bitumen and Bitumen Emissions) defines Asphalt as 'Group 2B, Possible Carcinogen to Humans'. This definition is based on studies of exposure to Asphalt fumes at elevated temperatures. The Monograph states that temperature plays an important role in determining the degree of exposure and also the carcinogenic potential of bitumen emissions. This same Monograph states that Asphalt is non-volatile at ambient temperature. There is no data presented in the Monograph to demonstrate that Asphalt at ambient temperature is considered a carcinogen. Since the normal use of this product is at ambient temperature, the Asphalt used in this product is not listed as a carcinogen. No other national or international agency has defined Asphalt as a carcinogen.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity: n/a

- Single exposure: n/a

- Repeated exposure: n/a

Aspiration hazard: not classified

Chronic effects: Not expected to be hazardous by OSHA criteria.

Further information: Symptoms may be delayed.

Numerical measures of toxicity – No information available

The following values are calculated based on chapter 3.1 of the GHS document. For exterior use only. Do not use indoors.

ATEmix (oral) 12,425.00

ATEmix (dermal) 5,3379.00

12. ECOLOGICAL INFORMATION

Ecotoxicity: The following table lists information related to aquatic toxicity. 96.9662% of the mixture consists of components of unknown hazards to the aquatic environment.

Component	Algae/aquatic plants	Fish	Crustacea
Diatomite (CAS 61790-53-2)	-	10000: 72 h Cyprinus carpio mg/L LC50	-
Naptha, petroleum, hydro de-sulfurized heavy (CAS 64742-82-1)	-	-	2.6: 96 h Chaetogammarus marinus mg/L LC50
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	-	7.72: 96 h Pimephales promelas mg/L LC50 flow-through	-

* Estimates for product may be based on additional component data not shown.

Persistence and

degradability: n/a

Bioaccumulation potential: n/a

Partition coefficient:

Asphalt (CAS 8052-42-4)

(at ambient temperature): 6

Mobility in soil: n/a

Other adverse effects: n/a

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

Hazardous waste code: D001: Waste flammable material with a flash point >105°F.

Waste from residues

/unused products: Dispose of in accordance with local regulations.

Contaminated packaging: Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum Powder (CAS 7429-90-5)	Ignitable powder
Diatomite (CAS 61790-53-2)	Toxic

14. TRANSPORTATION INFORMATION

DOT Regulated
 DOT Ground: Not regulated if shipped by ground in quantities LESS than 119 gallons (450 L)
 DOT Ground: Regulated if shipped by ground in quantities GREATER than 119 gallons (450 L)
 UN number: UN1993
 UN proper shipping name: Combustible liquid, n.o.s (mineral spirits)
 Transport Hazard Class: 3, Combustible liquid
 Packing Group: III

IATA Regulated
 UN number: UN1993
 UN proper shipping name: Combustible liquid, n.o.s (mineral spirits)
 Transport Hazard Class: 3, Combustible liquid
 Packing Group: III

IMDG Regulated
 UN number: UN1993
 UN proper shipping name: Combustible liquid, n.o.s (mineral spirits)
 Transport Hazard Class: 3, Combustible liquid
 Packing Group: III

DOT



IATA; IMDG



Further Information: If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous material. If shipped by vessel in quantities less than 7.9 gallons (30 L), IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.

15. REGULATORY INFORMATION

US Federal Regulations:

SARA 311/312

Hazard Categories:
 Acute health hazard: Yes
 Chronic health hazard: Yes
 Fire hazard: Yes
 Sudden pressure: No
 Reactive hazard: No

SARA 313 (TRI reporting): Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	SARA 313 – Threshold Values %
Aluminum Powder (CAS 7429-90-5)	1.0

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERLA Hazardous Substance List (40 CFR 1910.1001-1050):

Asphalt (CAS 8052-42-4) Listed

Other federal regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated

Safe Drinking Water Act: (SDWA)

Not regulated

US State Regulations: **WARNING:** This product contains a chemical known to the State of California to cause cancer.

Component	CA	FL	MA	MN	NJ	PA
Asphalt (CAS 8052-42-4)	YES	NO	YES	YES	YES	YES
Mineral Spirits (with < 0.1% Benzene) (CAS 8052-41-3)	YES	NO	YES	YES	YES	YES
Aluminum Powder (CAS 7429-90-5)	YES	NO	YES	YES	YES	YES
Diatomite (CAS 61790-53-2)	YES	NO	NO	NO	YES	NO
Nonane (CAS 111-84-2)	YES	NO	YES	YES	YES	YES
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	YES	NO	YES	YES	YES	YES

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4) Listed: January 1, 1990
 Diatomite (CAS 61790-53-2) Listed

US EPA Label Information

EPA Pesticide Registration: n/a

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health Hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties
HMIS	Health Hazards 2	Flammability 2	Physical Hazards 0	Personal Protection -
<i>Chronic Hazard Star Legend</i>		<i>* = Chronic Health Hazard</i>		

Issue Date: 5/26/2015 SDS Format
 Last Revision Date: 3/01/2011 MSDS Format
 Original Issue Date: 9/24/2004 MSDS Format
 Revision Disclosure: 2/22/2006 - Addition of new products. 3/01/2011 – supplier change. 5/26/2015 Change to SDS Format and separation by individual product.

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