# SAFETY DATA SHEET

# **SDS# 1007**

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name: USP<sup>®</sup> #640 Plastic Roof Cement CAS #: Mixture Generic Name: Roof Mastic Chemical Name: Asphalt Mixture (Article) Chemical Family: N/A

Recommended Use: Used to install, repair or rebuild roof flashings at parapet walls, gravel stops, stacks, vents, monitors and similar applications. Can be used with fiberglass, polyester fabrics or roll roofing for permanent repairs Recommended Restrictions: For exterior use only. Do not use indoors.

Supplier Information: U.S. PLY, INC. P.O. Box 163980 Fort Worth, TX 76161 (817) 413-0103 Internet Website: www.usply.com Email: technical@usply.com

**Toll Manufacturer Location:** 

RM Lucas Company 3211 South Wood Street Chicago, Illnois 60608 (773) 523-4300 www.rmlucas.com

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

Trade Name: USP<sup>®</sup> #640 Plastic Roof Cement, aka (Lucas 744)

# 2. HAZARDS IDENTIFICATION

# **Classification**

# **OSHA Regulatory Status**

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

Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

# Label elements

Emergency Overview				
Danger				
Hazard Statem May Cause gene May cause cance Causes damage	etic defects. er. to organs through p swallowed and ente	prolonged or repeated exposure. rs airways.		
	Thisle section		01	Salarat (Minaral Saiaita)
Appearance	Thick mastic	Physical State Liquid	Odor	Solvent (Mineral Spirits)
Precautionary St	atements - Prever	ntion		
	tructions before us			
		tions have been read and understood		
Use personal prote	ective equipment a	s 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 No smoking				
Keep container tightly closed when product is not in use. Ground/bond container and receiving equipment				
Use only non-sparking tools Take precautionary measures against static discharge				
1		6		
Use explosion-pro	of electrical/ventil	ating/lighting/equipment		

# **Precautionary Statements - 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

**Precautionary Statements - Storage** 

Store locked up. Store in well ventilated place. Keep cool.

# **Precautionary Statements - 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

• May be harmful if swallowed

• May be harmful in contact with skin

• Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity: 99.3586% of mixture consist of ingredient(s) of unknown toxicity

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

# Substance Mixture

This product is a mixture.

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

Common Name	Flashing Cement
Synonyms	None
Chemical Nature	Organic Solvents and additives

Chemical Name	CAS #	Weight - %	Trade Secret
Asphalt (at Ambient Temperature)	8052-42-4	50 - 60%	*
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	20 - 30%	*
Hydrated Aluminum-Magnesium Silicate (attapulgite)	12174-11-7	10 - 20%	*
Cellulose Fiber	9004-34-6	0 - 10%	*
Aromatic Naptha	64742-95-6	0 - 10%	*
Kaolin	1332-58-7	0-10%	*
Alkyl Amine Acetate	28701-67-9	0 - 10%	*
Nonane	111-84-2	0 - 10%	*
Styrene/Butadiene Copolymer	9003-55-8	0 - 10%	*
Quartz	14808-60-7	0 - 10%	*

# **4. FIRST AID MEASURES**

# **Description of 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.	
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.	
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.	
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately	
Ingestion	Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately. Most important symptoms /effects, acute and delayed indication of immediate medical and special treatment needed.	
Self-protection of the first aider	First aider: Pay attention to self-protection!	
Most important symptoms and effects, both acute and delayed		

Symptoms

May cause skin irritation. May cause eye irritation.

Indication of any immediate medical attention and special treatment needed

Note to Physicians

Treat symptomatically.

# **5. FIRE FIGHTING MEASURES**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbondioxide (CO2). Sand. Use foam or water FOG as a last resort.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread 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.

Explosion dataSensitivity to Mechanical ImpactNot sensitive.Sensitivity to Static DischargeMay be ignited by heat, sparks or flames.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

rensonal precutions, protective equipment and emergency procedures		
Personal precautions	No action should be taken involving any personal risk or without suitable training. Use personal protective equipment as required.	
Other Information	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
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.	
Methods and material for containment a	and cleaning up	
Methods for containment	Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.	
Methods for cleaning up	Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Remove all sources of ignition. Use only outdoors.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition.

# Incompatible materials Strong acids. Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control Parameters**

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**Exposure Guidelines** 

No ACGIH or OSHA PEL is assigned to this mixture. Exposure limits for the component materials are shown below. This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt (at ambient temperature) (CAS 8052-42-4)	TWA: 0.5 mg/m <sup>3</sup> benzene-soluble aerosol fume, inhalable particulate matter	-	Ceiling: 5 mg/m <sup>3</sup> fume 15 min
Mineral Spirits (with < 0.1% Benzene) (CAS 8052-41-3)	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m <sup>3</sup>	IDLH: 20000 mg/m <sup>3</sup> Ceiling: 1800 mg/m <sup>3</sup> 15 min TWA: 350 mg/m <sup>3</sup>
Hydrated Aluminum- Magnesium Silicate (Attapulgite) 12174-11-7	TWA: 1 mg/m3 respirable particulate matter	-	-
Cellulose Fiber 9004-34-6	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 1 mg/m <sup>3</sup>
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter	TWA: 15 mg/m3 total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Nonane 111-84-2	TWA: 200 ppm	(vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	<ul> <li>TWA: 50 μg/m3 TWA: 50 μg/m<sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m<sup>3</sup> respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction: (10)/(%SiO2 + 2) mg/m<sup>3</sup> TWA respirable fraction</li> </ul>	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust

#### Appropriate engineering controls

**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 vapors. Ventilation must be sufficient to maintain 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).
Skin and body protection	Wear protective gloves and protective clothing that is resistant to chemical penetration.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.
Iygiene Considerations	Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

# General Hygiene Considerations

Melting point/freezing point

Boiling point / boiling range

Flammability (solid, gas)

Flammability Limit in Air

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State Appearance Color

**Property** 

Flash point

Evaporation rate

pН

Liquid Thick Mastic Black

 Values

 Not Applicable

 None / -70 °C None / -94 °F

 > 154 °C / 310 °F

 > 40.5 °C / 105 °F

 0.1

 No information available

Odor Odor threshold Solvent (Mineral Spirits) 1-30 PPM. Odor thresholds vary greatly. Do not rely on odor threshold alone to determine potentially hazardous substances.

# Remarks + Methods

Melting Point is not applicable. Freezing points are shown.

Setaflash Butly acetate = 1

Flammable above 105 °F and 40.5 °C

7.0

1.6 0.3 (kPa)

5.3

1.09

None

Insoluble

330 °C / 626 °F

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Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific Gravity Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

# **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density Not applicable No information available Less than 270 g/l 9.2 to 9.5 lb/gal Not applicable

No information available

No information available

No information available No information available

# **10. STABILITY AND REACTIVITY**

# Reactivity Not applicable

# Chemical Stability

Stable

#### Possible hazardous reactions None under normal use

Hazardous polymerization

ation Hazardous polymerization does not occur.

Vapor accumulation could flash or explode if ignited.

# **Conditions to avoid**

Avoid static discharge. Avoid heat, open flames and sparks.

# <u>Incompatible materials</u> Strong oxidizing agents. Strong acids.

<u>Hazardous decomposition Products</u> Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiatns.

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Product Information	Toxicological testing has not been conducted for this product overall. Available tocicological data for individual ingredient 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 exposure.
Inhalation	Avoid breathing vapors or mists.
Skin contact	May cause irritation.
Eye contact	Avoid contact with eyes. Contact with eyes may cause irritation.
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 nonvolatile 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.

\* No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: http://www.oehha.org/prop65/CRNR\_notices/safe\_use/sylicasud2.html

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at Ambient Temperature) - 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	$> 94.4 \text{ mg/m}^3$ (Rat) 4.5 h
Cellulose Fiber – 9004-34-6	> 5 g/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	> 5800 mg/m <sup>3</sup> (Rat) 4 h

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@ 20 °C Where: Air = 1 at 68 °F (20 °C) Water = 1 g/ml

No data available

USP <sup>®</sup> #640 Plastic Roof Cement			<b>SDS #1007</b>
Aromatic Naptha – 64742-95-6	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Kaolin – 1332-58-7	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Alkyl Amine Acetate – 28701-67-9	= 1216 mg/kg (Rat)	-	-
Nonane – 111-84-2	-	-	=3200 ppm (Rat) 4 h

# 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	Irritating to eyes.
Irritation	Irritating to eyes, respiratory system and skin.
Corrosivity	Not classified
Sensitization	May cause sensitization of susceptible persons.
Germ cell mutagenicity	Contains a known or suspected mutagen.
Carcinogenicity	This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrated Aluminum-Magnesium Silicate (Attapulgite) – 12174-11-7	-	Group 2B	-	Х
Cellulose Fiber – 9004-34-6	-	-	Known	-
Styrene/Butadiene Copolymer - 9003-55-8	-	Group 3	-	-
Quartz	A2	Group 1	Known	Х

Legend			
ACGIH (American Confere	ence of Governmental Industrial Hygienists)	IARC (Internatio	nal Agency for Research on Cancer)
AI	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 (Occupati	onal Safety and health Administration of the US Department of Labor)
Known	Known Carcinogen	X	Present
Reasonably Anticipated	Reasonably Anticipated to be a Human Carcinogen		

 Reproductive toxicity:
 None known for product as a whole.

 Developmental Toxicity
 None known for product as a whole.

 Teratogenicity
 None Known.

 STOT – Single exposure:
 No information available

 STOT – Repeated exposure:
 No information available

 Aspiration hazard:
 No information available

# 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)	4,875.20
ATEmix (dermal)	2,052.40
ATEmix (inhalation-dust/mist)	6.35
ATEmix (inhalation-vapor)	5,056.40

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

0.68796 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Species	Test Results	
Aromatic Naptha – 64742-95-6	-	9.22: 96 h Oncorhynchus mykiss mg/L LC50	6.14: 48 h Daphnia magna mg/LEC50	

# Persistence and degradability

No information available.

# **Bioaccumulation potential**

No information available.

Chemical Name	Partition coefficient
Asphalt (at Ambient Temperature) – 8052-42-4	>6

No information available

# **13. DISPOSAL CONSIDERATIONS**

#### Water treatment methods

Disposal of waste	Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

DOT Ground: Regulated if shipped in containers > 119 gallons (450 liters).

# **14. TRANSPORTATION INFORMATION**

1993

Regulated

Combustible liquid, n.o.s

Combustible liquid, n.o.s

NA 1993

Regulated

NA 1993

Regulated

Regulated

Regulated

1993

1993

3

III

3

III

<u>DOT</u>

Regulated DOT Ground: Not regulated if shipped in containers < 119 gallons (450 liters).

UN/ID no. Hazard Class Packing Group

<u>TDG</u> UN/ID no. Proper shipping name

Hazard Class Packing Group <u>MEX</u>

UN/ID no. Proper shipping name

ICAO (air) UN/ID no.

IATA UN/ID no.

IMDG

 UN/ID no.
 1993

 RID
 Not applicable in the United States.

 ADR
 Not applicable in the United States.

ADN Not applicable in the United States.

# **15. REGULATORY INFORMATION**

International Inventories TSCA

All of the components of this product are listed on the US TSCA (Tocix Substances Control Act) Inventory or are exempt. All of the components of this product are listed on the DSL.

#### Legend TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS

DSL/NDSL

United States Toxic Substances Control Act Section 8(b) Inventory Canadian Domestic Substances List/Non-Domestic Substances List INCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Japan Existing and New Chemical Substances China Inventory of Existing Chemical Substances Korean Existing and Evaluated Chemical Substances Philippines Inventory of Chemicals and Chemical Substances

Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### SARA 313

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.

# SARA 311/312

Acute health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes

# USP® #640 Plastic Roof Cement Sudden release of pressure hazard No Reactive Hazard No

# 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)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

#### US State Regulations

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Hydrated Aluminum-Magnesium Silicate (Attapulgite) – 12174-11-7	Carcinogen
Cellulose Fiber – 9004-34-6	Carcinogen
Quartz – 14808-60-7	Carcinogen

# U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Asphalt (at ambient temperature) 8052-42-4	Х	Х	Х
Mineral Spirits (with < 0.1% Benzene) 8052-41-3	Х	Х	Х
Cellulose Fiber 9004-34-6	Х	Х	Х
Kaolin 1332-58-7	Х	Х	Х
Nonane 111-84-2	Х	Х	Х
Quartz 14808-60-7	Х	Х	Х

# U.S. EPA Label Information

EPA Pesticide Registration Number

Not Applicable

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

<u>NFPA</u>	Health Hazard	2	Flammability	2	Instability	0	Physical and Chemical Properties	-
<u>HMIS</u> Chronic Ha	Health Hazard	2	<b>Flammability</b> * = Chronic Hea	2 lth Haz	Physical Hazards ard	0	Personal Protection	-
Issue Date:	5/0	9/2023						

Issue Date:	5/09/2025
Last Revision Date:	6/16/2023
Original Issue Date:	9/24/2004
Revision Disclosure:	12/23/2013

Prepared by: U.S. PLY, INC. Technical Services Department P.O. Box 163980 Fort Worth, TX USA 76161

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End of Safety Data Sheet