

SAFETY DATA SHEET

SDS# 1005

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: USP® #41 Primer
CAS #: Mixture
Generic Name: Asphalt Primer
Chemical Name: Asphalt Mixture
Chemical Family: N/A

Recommended Use: Keep from heat, sparks, open flame and other sources of ignition. Avoid contact with strong oxidizing agents. PRODUCT SHOULD NOT BE BURNED OR HEATED USING A DIRECT FLAME DEVICE.

Recommended Restrictions: For exterior use only. Do not use indoors. This product is not intended for use over tar or asphalt and gravel.

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, Illinois 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® #41 Primer, aka (Lucas 315)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Germ cell mutagenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard Statements

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



Appearance

Viscous

Physical State

Liquid

Odor

Solvent (Mineral Spirits)

Precautionary Statements - 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
Use only outdoors or in a well-ventilated area
Wear respiratory protection
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
 Use explosion-proof electrical/ventilating/lighting/equipment
 Keep cool

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 Specific treatment is urgent (see .? on this label)
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician
 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 a well-ventilated place. Keep container

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Supplemental Information

May be harmful in contact with skin
 Unknown Acute Toxicity: 100% 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 Asphalt Roof Primer
Synonyms ASTM D-41, Type II Primer
Chemical Nature Organic Solvents and additives

Chemical Name	CAS #	Weight - %	Trade Secret
Asphalt (at Ambient Temperature)	8052-42-4	60 – 70%	*
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	30 – 40%	*
Trimethyl Benzene (mixed Isomers)	25551-13-7	0 – 10%	*
Nonane	111-84-2	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..

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. Carbon dioxide (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 data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge May 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

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 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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from freezing.

Incompatible materials Strong acids. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt (at ambient temperature) (CAS 8052-42-4)	TWA: 0.5 mg/m ³ benzene-soluble aerosol fume, inhalable particulate matter	-	Ceiling: 5 mg/m ³ fume 15 min
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
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	TWA: 25 ppm	(vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m ³	-
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

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.

General Hygiene Considerations

Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Solvent (Mineral Spirits)
Appearance	Viscous	Odor threshold	1-30 PPM. Odor thresholds vary greatly. Do not rely on odor threshold alone to determine potentially hazardous substances.
Color	Black	Remarks + Methods	
Property	Values		
pH	Not Applicable		
Melting point/freezing point	None / -70 °C None / -94 °F		Melting Point is not applicable. Freezing points are shown.
Boiling point / boiling range	> 154 °C / 310 °F		
Flash point	> 40.5 °C / 105 °F		Setaflash
Evaporation rate	0.1		Butly acetate = 1
Flammability (solid, gas)	No information available		
Flammability Limit in Air			Flammable above 40.5 °C / 105 °F
Upper flammability limit:	7.0		
Lower flammability limit:	1.6		
Vapor pressure	0.3 (kPa)		@ 20 °C
Vapor density	5.3		Where: Air = 1 at 68 °F (20 °C)
Specific Gravity	0.98		Water = 1 g/ml
Water solubility	Insoluble		
Solubility in other solvents	Soluble in aromatic and aliphatic solvents.		
Partition coefficient	No information available		No data available
Autoignition temperature	330 °C / 626 °F		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive properties	Vapor accumulation could flash or explode if ignited.		
Oxidizing properties	None		

Other Information

Softening point	Not applicable
Molecular weight	No information available
VOC Content (%)	Less than 350 g/l
Density	8.2 – 8.4 lb/gal
Bulk density	Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical Stability

Stable

Possible hazardous reactions

None under normal use

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

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

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition Products

Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

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 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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at ambient temperature) (CAS 8052-42-4)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 94.4 mg/m ³ (Rat) 4.5 h
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	= 8970 mg/kg (Rat)	-	-
Nonane (CAS 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 This product does not contain any ingredients that cause germ cell mutagenicity

Carcinogenicity The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed any ingredient as a carcinogen.

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 Known Human Carcinogen
A2 Suspected Human Carcinogen
A3 Animal Carcinogen
A4 Not Classified as a Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 Carcinogenic to Humans
Group 2A Probably Carcinogenic to Humans
Group 2B Possibly Carcinogenic to Humans
Group 3 Not Classifiable as a Human Carcinogen

NTP (National Toxicology Program)

Known Known Carcinogen
Reasonably Anticipated Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X Present

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) 5,005.00
ATEmix (dermal) 2,002.00
ATEmix (inhalation-dust/mist) 0.09

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.75867 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	-	7.72: 96 h Pimephales promelas mg/L LC50 flow-through	-

Persistence and degradability

No information available.

Bioaccumulation potential

No information available.

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

Other adverse effects 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 Do not reuse container.

14. TRANSPORTATION INFORMATION

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

UN/ID no. 1993
Proper shipping name Combustible liquid, n.o.s
Hazard Class 3
Packing Group III

TDG Regulated
UN/ID no. NA 1993
Proper shipping name Combustible liquid, n.o.s
Hazard Class 3
Packing Group III

MEX Not Regulated
UN/ID no. NA 1993
Proper shipping name Combustible liquid, n.o.s

ICAO (air) Regulated
UN/ID no. 1993

IATA Regulated
UN/ID no. 1993

IMDG <u>UN/ID no.</u>	Regulated 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 (Toxic Substances Control Act) Inventory or are exempt.
DSL/NDSL All of the components of this product are listed on the DSL.

Legend

TSCA United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS Japan Existing and New Chemical Substances
IECSC China Inventory of Existing Chemical Substances
KECL Korean Existing and Evaluated Chemical Substances
PICCS Philippines Inventory of Chemicals and Chemical Substances
AICS 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
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.

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) (CAS 8052-42-4)	X	X	X
Mineral Spirits (with < 0.1% Benzene) (CAS 8052-41-3)	X	X	X
Trimethyl Benzene (mixed Isomers) (CAS 25551-13-7)	X	X	X
Nonane (CAS 111-84-2)	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

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

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

USP® #41 Primer**SDS #1005**

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Revision Disclosure: No information available

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