

SAFETY DATA SHEET

SDS# 1008

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: USP® #901 Premium Modified Bitumen Adhesive
CAS #: Mixture
Generic Name: Cold Process Adhesive
Chemical Name: Asphalt Mixture (Article)
Chemical Family: N/A

Recommended Use: Used as a cold process adhesive for modified bitumen membranes.
Recommended Restrictions: For exterior use only. Do not use indoors. Adequate ventilation recommended.

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:

Ergon Armor
 450 Funston Drive
 Kansas City, KS 66115
 1-800-222-7122
 www.ergonarmor.com
 sds@ergon.com

Emergency Telephone Number

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

Trade Name: USP® #901 Premium Modified Bitumen Adhesive

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Flammable liquids	Category 3
Skin corrosion / Irritation	Category 2
Serious eye damage / Eye irritation	Category 2
Germ cell mutagenicity	Category 1
Carcinogenicity	Category 1
Specific target organ toxicity (Single exposure)	Category 3 narcotic effect
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Emergency Overview

Danger

Hazard Statements

May Cause genetic defects.
 May cause cancer.
 Causes damage to organs through prolonged or repeated exposure.
 May cause drowsiness or dizziness
 Causes skin irritation
 Flammable liquid and vapor



Appearance

Thick mastic

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
 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

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 span and water/shower
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 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

None

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	30 – 40%	*
Naptha (Petroleum), Hydrotreated Heavy	64742-48-9	20 - 30%	*
Solvent Naptha (Petroleum), Light arom.	64742-95-6	1 - 10%	*
1,2,4-Trimethylbenzene	95-63-6	0 - 5%	*
Benzene	71-43-2	< 1%	*
Quartz	14808-60-7	< 1%	*
Other components below reportable levels	-	35.54 %	*

4. FIRST AID MEASURES

Description of first aid measures

General Advice IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

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. Get medical attention if irritation develops and persists.

Skin Contact For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. For minor skin contact, avoid spreading material on unaffected skin. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. 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 needed.

Ingestion Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician. 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.

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

Most important symptoms and effects, both acute and delayed

Symptoms Not available.

Indication of any immediate medical attention and special treatment needed

Note to Physicians In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

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 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.

Firefighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Firefighters 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. Do not get water inside container. Some of these materials, if spilled, may evaporate leaving a flammable residue.

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. 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

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 ³ benzene-soluble aerosol fume, inhalable particulate matter	-	Ceiling: 5 mg/m ³ fume 15 min
1,2,4-trimethyl Benzene – 95-63-6	TWA: 25 ppm	TWA: 25 ppm	
Quartz 14808-60-7	TWA: 0.025 mg/m ³ respirable fraction	TWA: 50 µg/m ³ TWA: 50 µg/m ³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m ³ respirable dust : (250)/(% SiO ₂ + 5) mppcf TWA respirable fraction: (10)/(% SiO ₂ + 2) mg/m ³ TWA respirable fraction	IDLH: 50 mg/m ³ respirable dust TWA: 0.05 mg/m ³ 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.

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	Not available
Appearance	Thick Mastic	Odor threshold	Not available
Color	Black		

<u>Property</u>	<u>Values</u>	<u>Remarks + Methods</u>
pH	Not Available	
Melting point/freezing point	Not Available	Melting Point is not applicable. Freezing points are shown.
Boiling point / boiling range	> 100 °C / 212 °F	
Flash point	> 37.5 °C / 100 °F	Cleveland Open Cup
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Available	
Flammability Limit in Air	Not Available	
Upper flammability limit:	Not Available	
Lower flammability limit:	Not Available	
Vapor pressure	Not Available	
Vapor density	Not Available	
Specific Gravity	1.08 – 1.2	Water = 1 g/ml
Solubility in other solvents	Insoluble	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	None	

Other Information

Softening point Not applicable
 Molecular weight No information available
 VOC Content (%) Less than 250 g/l
 Density 9.2 to 9.5 lb/gal
 Bulk density Not applicable

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Stable at normal conditions

Possible hazardous reactions

None under normal use

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Avoid heat, open flames and sparks.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition Products

Combustion may produce irritants, Carbon monoxide, Carbon dioxide, Sulphur oxides, 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 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

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact

Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Causes skin irritation.

Eye contact

Avoid contact with eyes. Contact with eyes causes serious 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	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt (at Ambient Temperature)	8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 94.4 mg/m ³ (Rat) 4.5 h
Naphtha (Petroleum), Hydrotreated Heavy	64742-48-9	> 5 g/kg (Rat)	> 2 g/kg (Rabbit) > 2000 mg/kg (Rabbit)	> 5.61 mg/l (Rat) 4 h
Solvent Naphtha (Petroleum), Light arom.	64742-95-6	>2000 - <= 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2 - <= 10 mg/l (Rat) 4 h
1,2,4-Trimethylbenzene	95-63-6	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Benzene	71-43-2	= 1216 mg/kg (Rat)	-	-
Quartz	14808-60-7	-	-	=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.

USP® #901 Premium Modified Adhesive

SDS #1008

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	CAS #	ACGIH	IARC	NTP	OSHA
Asphalt (at Ambient Temperature)	8052-42-4	-	2B	-	
Naptha (Petroleum), Hydrotreated Heavy	64742-48-9	-	-	-	-
Solvent Naptha (Petroleum), Light arom.	64742-95-6	-	2B	Reasonably Anticipated	-
1,2,4-Trimethylbenzene	95-63-6	-	-	-	-
Benzene	71-43-2	-	2B	Reasonably Anticipated	
Quartz	14808-60-7	A2	Group 1	Known	X

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		

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

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 Offer rinsed packaging material to local recycling facilities.

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.	UN1999
Hazard Class	3
Packing Group	III
TDG	Regulated
UN/ID no.	UN1999
Proper shipping name	Combustible liquid, n.o.s
Hazard Class	3
Packing Group	III
MEX	Regulated
UN/ID no.	UN1999
Proper shipping name	Combustible liquid, n.o.s
ICAO (air)	Regulated
UN/ID no.	UN1999
IATA	Regulated
UN/ID no.	UN1999
IMDG	Regulated
UN/ID no.	UN1999
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.

Chemical Name	California Proposition 65
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	X	X	X
Quartz 14808-60-7	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						

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 Revision Disclosure: 12/23/2013

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End of Safety Data Sheet