

SAFETY DATA SHEET

SDS# 1003

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: USP #901 Premium Modified Bitumen Adhesive, USP #954 Premium Modified Flashing Cement

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
 (866) 787-4759 or (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, (aka BH5330)

2. HAZARDS IDENTIFICATION

Physical Hazards:	Flammable liquids	Category 3
Health Hazards:	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 effects
	Specific Target organ toxicity, repeated exposure	Category 1
Environmental Hazards:	Not classified	
OSHA Defined Hazards:	Not classified	

Label elements:



Signal word:

Danger

Hazard Statement:

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

Prevention:

Wear protective gloves/protective clothing/eye protection/face protection. 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. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Response:

Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs, seek medical advice/attention. Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use appropriate media for extinction. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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: None

3. COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	Common Name and synonyms	CAS #	Weight - %
Asphalt (at Ambient Temperature)	Asphalt	8052-42-4	40 - 60
Stoddard Solvent	Stoddard Solvent	8052-41-3	5-15
Quartz	Quartz	14808-60-7	<5
Non Hazardous Ingredients	NE	NE	NE

NE = Not Established

4. FIRST AID MEASURES

Inhalation: Remove 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.

Most important symptoms / effects, acute and delayed indication of immediate medical and special treatment needed: Not Available

General information: 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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, dry powder, CO2. Extinguish with water fog.

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

Specific hazards arising from the chemical: Fire may produce irritating, corrosive and/or toxic gases.

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.

Methods and materials for containment and cleaning up:
 Dike far ahead of spill for later disposal. Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain. Collect spillage. Prevent product from entering drains. Never return spills in original containers for re-use.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: This mixture has no ingredients that have PEL, TLV, or other recommended exposure limits.

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment:
 Eye/face protection: Wear safety glasses, chemical goggles (if splashing is possible)
 Hand protection: Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.
 Skin protection: Wear appropriate chemical resistant clothing. Chemical resistant gloves.
 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: Liquid
 Color: n/a
 Odor: n/a
 Odor threshold: n/a
 pH: n/a
 Melting point: n/a
 Freezing point: n/a
 Boiling point: 212°F (100°C)
 Flash point: 100.0 – 140.0°F (37.8 – 60.0°C) Cleveland open cup
 Evaporation rate: n/a
 Flammability (solid, gas): n/a
 Flammability Limits:
 Lower/upper %: n/a
 Explosive Limits:
 Lower/upper %: n/a
 Vapor Pressure: n/a
 Vapor Density: n/a
 Solubility in Water: n/a
 Partition coefficient

(n-octanol/water) n/a
 Auto-ignition temp: n/a
 Decomposition temp: n/a
 Viscosity: n/a
 Other information 9.00 – 10.0 lbs/gal
 Specific gravity: 1.08 – 1.12
 VOC < 250 g/l

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 oxidizing agents.
 Hazardous decomposition Products: Irritants, toxic gas.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
 Inhalation: 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: Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects:

Acute Toxicity Not classified
 USP 901 Premium Modified Adhesive (CAS Mixture)
 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)	-
Quartz (CAS 14808-60-7)	> 500 mg/kg (Rat)	-	-

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

Skin corrosion/irritation: May cause defatting of the skin, but is neither an irritant nor a sensitizer.
 Serious eye damage /eye irritation: Not classified. Because of its adhesive features, contact with eyes may cause physical damage due to adhesive properties as well as severe irritation and pain.
 Respiratory sensitization: n/a
 Skin sensitization: Irritating to skin.
 Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
 Carcinogenicity: Risk of cancer cannot be excluded with prolonged exposure. This product contains crystalline silica (quartz). Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

IARC Monographs, Overall Evaluation of Carcinogenicity

Component Name	ACGIH	IARC	NTP	OSHA (29 CFR 1910.1001-1050)
Asphalt (CAS 8052-42-4)	-	2B	-	-
Stoddard Solvent (CAS 8052-41-3)	-	3	-	-
Quartz (CAS 14808-60-7)	A2	1	Known	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		

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Components of this product are hazardous to aquatic life. Accumulation in aquatic organisms is expected. Not expected to be harmful to aquatic organisms.

Product	Species		Test Results
USP 901 Premium Modified Adhesive (CAS Mixture) aka BH5330	LC50	Fish	1148.3212 mg/l, 96 hours estimated
* Estimates for product may be based on additional component data not shown.			

Persistence and degradability: n/a
 Bioaccumulation potential: n/a
 Partition coefficient:
 n-octanol / water (log Kow) Stoddard Solvent 3.16 – 7.15
 Mobility in soil: n/a
 Other adverse effects: n/a

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of this material and its container to hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001. 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 <140°F.
 Waste from residues
 /unused products: Dispose of in accordance with local regulations.
 Contaminated packaging: Offer rinsed packaging material to local recycling facilities.

14. TRANSPORTATION INFORMATION

DOT

UN number: UN1999
 UN proper shipping name: Tars, liquid
 Transport Hazard Class: 3, Combustible liquid
 Packing Group: III
 Subsidiary Risk: --
 Environmental hazards:
 Marine pollutant: No
 Special precautions for user: If shipped by ground in quantities LESS than 119 gallons (450 L): Not regulated as a hazardous material.
 Special provisions: B1, B13, IB3, T1, TP3
 Packaging exceptions: 150
 Packaging non bulk: 203
 Packaging bulk: 242

IATA

UN number: UN1999
 UN proper shipping name: Tars, liquid
 Transport Hazard Class: 3, Combustible liquid
 Packing Group: III
 Subsidiary Risk: --
 Environmental hazards: No

ERG Code: 3L
Special precautions for user: n/a
Other information:
Passenger and cargo aircraft: Allowed
Cargo aircraft only: Allowed

IMDG

UN number: UN1999
UN proper shipping name: Tars, liquid
Transport Hazard Class: 3, Combustible liquid
Packing Group: III
Subsidiary Risk: --
Environmental hazards
Marine pollutant: No
EmS: F-E, S-E
Special precautions for user: n/a
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

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: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):
Not regulated

CERLA Hazardous Substance List (40 CFR 1910.1001-1050):
Asphalt (CAS 8052-42-4) Listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
Not Listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories:
Immediate Hazard: No
Delayed Hazard: No
Fire Hazard: Yes
Pressure Hazard: No
Reactivity Hazard: No

SARA 302 Extremely hazardous substance:

SARA 302: Not listed
SARA 311/312: Yes
SARA 313 (TRI reporting): Not regulated

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
Stoddard Solvents (CAS 8052-41-3)	YES	NO	YES	YES	YES	YES
Quartz (CAS 14808-60-7)	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
 Quartz (CAS 14808-60-7) Listed: October 1, 1988

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

Issue Date: 5/21/2015 SDS Format
 Last Revision Date: 6/21/2021 SDS Format
 Original Issue Date: 4/24/2004 MSDS Format
 Revision Disclosure: 12/23/2013 - Addition of new products. 5/21/2015 Change to SDS Format and separation by individual product.
 6/21/2021 Changes to include new GHS

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End of Safety Data Sheet