

**SRW ADHESIVE  
MATERIAL SAFETY DATA SHEET**

MSDS Name: SRW Retaining Wall & Paver Adhesive  
MSDS Number: 56441  
MSDS Revision Date: 11-09-05  
Page Number: 1 of 5

**SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: SRW Retaining Wall & Paver Adhesive  
CAS Number: none  
Hazard Rating: Health: 2 Fire: 3 Reactivity: 0

Company Identification: SRW Products • Princeton, MN

Contact: SRW Products  
Telephone/Fax: (800) 752-9326 • (763)389-2725  
Emergency Phone (24 Hr): (614) 445-1300  
Chemtrec (24 Hr.): (800) 424-9300  
Chemtrec International: (703) 527-3887

Product Class: Solvent based  
Product Use: Construction adhesive  
Product Code: 3195

Division: Construction Adhesives & Sealants

**SECTION II - COMPOSITION AND INFORMATION ON INGREDIENTS**

| <u>Hazardous Ingredients</u> | <u>CAS Number</u> | <u>%</u> |
|------------------------------|-------------------|----------|
| ACETONE                      | 67-64-1           | 13.35    |
| HEXANE                       | 110-54-3          | 13.18    |
| TOLUENE                      | 108-88-3          | 8.31     |

OSHA PELs & ACGIH TLVs are listed in Section VIII where applicable.

**SECTION III - HAZARD IDENTIFICATION**

**NOTE:**

Repeated and prolonged overexposure to the mixture of solvent(s) listed in Section II can result in systemic effects including permanent brain, nervous system, liver, and kidney damage. Intentional misuse by deliberately concentrating & inhaling the contents may be harmful or fatal.

**EMERGENCY OVERVIEW:**

Product is a beige, medium viscosity mastic. **DANGER: EXTREMELY FLAMMABLE, VAPOR HARMFUL. CONTAINS ACETONE, TOLUENE AND HEXANE.** Vapors can cause flash fire. Vapors can ignite explosively. Prevent buildup of vapors by opening all windows and doors to create cross-ventilation. Keep away from heat, sparks and open flame. Do not smoke. Turn off stoves, heaters and sparking electric motors. Keep container tightly closed when not in use. Avoid prolonged breathing of vapor. **KEEP OUT OF REACH OF CHILDREN.**

**ROUTES OF ENTRY:**

INHALATION: Yes  
INGESTION: Yes  
SKIN: Yes  
EYE: Yes

**INHALATION:**

Avoid breathing vapor or mists. May cause headaches and dizziness. High vapor concentrations are irritating to the nose, throat and lungs and can cause systemic effects. Vapors can readily accumulate in confined or poorly ventilated areas.

**INGESTION:** Ingestion is not a probable route of exposure. Harmful if swallowed.

**SKIN:** May be harmful if absorbed through skin, may produce kidney, liver and central nervous system damage. A single exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

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**EYE:** Substance may cause severe eye irritation.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Preexisting neurological conditions, skin disorders, and respiratory disease.

**CARCINOGENICITY:**

IARC: No

NTP: No

OSHA: No

**REPRODUCTIVE TOXICITY:**

Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

**TARGET ORGANS:**

Prolonged or repeated overexposure may cause eye, skin, respiratory system, central nervous system, peripheral nervous system, liver and kidney damage.

**SECTION IV – FIRST AID MEASURES**

Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmia's (irregular beating) in persons exposed to high concentrations of hexane (e.g. in enclosed spaces or with deliberate abuse). If used, monitor heart action closely. Consider use of other drugs with less arrhythmogenic potential.

**INHALATION:** Remove to fresh air. If difficulty persists seek medical attention.

**INGESTION:** Call poison control center immediately. Follow their specific instructions. Do Not induce vomiting.

**SKIN:** Wash with soap and water. Contact a physician if irritation develops or persists.

**EYE:** Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention.

**SECTION V - FIRE-FIGHTING MEASURES**

Flammability Class (OSHA)IB

Flash Point: Less than 0°F

Setaflash

Explosive Range: Lower explosive limit 1.2%

Upper explosive limit 12.8%

Flammable liquid: Can form explosive mixtures at temperatures at or above the flashpoint.

**EXTINGUISHING MEDIA:**

Use alcohol foam, carbon dioxide, or dry chemical when fighting fires involving this product.

**HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of carbon may be released during combustion.

**FIRE-FIGHTING PROCEDURES:**

Wear a NIOSH approved self-contained breathing apparatus. Wear appropriate personal protective equipment. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

**SECTION VI - ACCIDENTAL RELEASE MEASURES**

**CONTAINMENT TECHNIQUES:**

Use inert absorbent to dike the spill. Keep away from drains.

**CLEAN UP:** If possible pump liquid into an approved container or spread absorbent over spill and shovel (use non-sparking equipment) product/absorbent mixture into an approved container. If product has dried, scrape up and place in an approved container.

**EMERGENCY MEASURES:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protection equipment (PPE) (see Section VIII).

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**SECTION VII - HANDLING & STORAGE**

**HANDLING:**

Avoid breathing vapors from the headspace of containers.  
Keep lid closed when not in use.  
Use only in well-ventilated area.  
Follow all MSDS/label precautions even after container is emptied.  
Containers may retain product residues and vapors.

**STORAGE:**

Keep away from sources of ignition. Do not store above 110°F.  
Store large quantities in buildings designed & protected for storage of NFPA Class 1-B flammable materials.

**SECTION VIII - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Occupational Exposure Limits

|         | <u>ACGIH TLV</u> | <u>ACGIH TLV-C</u> | <u>ACGIH STEL</u> | <u>OSHA STEL</u> | <u>OSHA PEL</u> |
|---------|------------------|--------------------|-------------------|------------------|-----------------|
| ACETONE | 500.00 PPM       | N/est              | 1000.00 PPM       | N/est            | 1000.00 PPM     |
| HEXANE  | 50.00 PPM        | N/est              | N/est             | N/est            | 500.00 PPM      |
| TOLUENE | 50.00 PPM        | N/est              | N/est             | N/est            | 200.00 PPM      |

The OSHA Ceiling for toluene is 300 ppm.

**ENGINEERING CONTROLS:**

Use local exhaust as needed to maintain occupational exposure limits. Maintain standard plant ventilation.

**OTHER:** Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.

**RESPIRATORY PROTECTION:**

Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific containment. Follow requirements for respiratory protection in OSHA 1910.134.

**EYE PROTECTION:** Chemical splash goggles (ANSI Z87.1 or approved equivalent).

**SKIN PROTECTION:** Where skin contact can occur, wear impervious gloves.

**SECTION IX – PHYSICAL & CHEMICAL PROPERTIES**

|                        |                             |
|------------------------|-----------------------------|
| Form:                  | Mastic                      |
| Appearance/Color:      | Beige                       |
| Odor:                  | Solvent                     |
| Solubility (in water): | Nil                         |
| pH Value:              | Not Applicable              |
| Boiling Range/Point:   | 121° F                      |
| Evaporation Rate:      | Faster than n-Butyl Acetate |
| % Volatile:            | 34%                         |
| Specific Gravity:      | 1.06                        |
| VOC:                   | 282 g/l                     |

**SECTION X – STABILITY & REACTIVITY**

|                                   |   |
|-----------------------------------|---|
| Stability:                        | This product is stable.                   |
| Hazardous Polymerization:         | Hazardous polymerization will not occur.  |
| Conditions To Avoid:              | Heat, sparks, open flame.                 |
| Incompatibility:                  | Strong oxidizing agents, acids and bases. |
| Hazardous Decomposition Products: | Will not occur.                           |

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**SECTION XI - TOXICOLOGICAL INFORMATION**

Acetone - Acute:

Acetone has a low order of acute and inhalation toxicity. Acetone is a slight skin irritant and moderately severe eye irritant. Excessive inhalation can cause headache, drunkenness, and weakness.

Acetone - Chronic:

Kidney damage and anemia can result from sustained high level exposure. Acetone is reported to potentiate the liver toxicity of chloroform.

Hexane - Acute:

Ingestion of hexane can cause nausea, vomiting, stomach pain, and diarrhea. Hexane can irritate the skin and eyes. Acutely, the most common toxic effects are central nervous system depression and chemical pneumonitis resulting from aspiration into the lungs following ingestion.

Hexane - Chronic:

Dermal irritation and central nervous system depression accompanied by peripheral system damage (polyneuropathy) are common traits of sustained overexposure.

Toluene - Acute:

Toluene is a central nervous system depressant and skin and mucous membrane irritant. Severe dermatitis may result from its drying and defatting action. Toluene is an aspiration hazard causing chemical pneumonitis.

Toluene - Chronic:

Toluene can cause cardiac sensitization. It is toxic to the kidney, liver and can cause effects on the blood system such as increased clotting time.

Toluene may be harmful to the human fetus based on positive test results in laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

**SECTION XII - ECOLOGICAL INFORMATION**

This formulation has not been tested for environmental effects.

**SECTION XIII - DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Disposal of this product must comply with all applicable federal, state and local regulations.

**CONTAINER DISPOSAL:**

Disposal of this container should comply with all applicable federal, state and local regulations.

**SECTION XIV - TRANSPORT INFORMATION**

For any 10.5-ounce size of this product and for all 29-ounce to 1 gallon sizes of this product not shipped by air:

|           |                  |  |
|-----------|------------------|--|
| DOT:      | UN Number:       | None   |
|           | UN Pack Group:   | N/A  |
|           | UN Class:        | ORM-D  |
|           | Shipping Name:   | CONSUMER COMMODITY   |
| AIR:      | UN Number:       | ID8000   |
|           | UN Pack Group:   | N/A  |
|           | UN Class:        | 9  |
|           | ICAO/IATA Class: | 9  |
| MARITIME: | Shipping Name:   | CONSUMER COMMODITY   |
|           | UN Number:       | UN1133   |
|           | UN Pack Group:   | III  |
|           | UN Class:        | 3  |
|           | IMDG Class:      | Limited Quantity   |
|           | Shipping Name:   | Adhesives, containing a Flammable Liquid, Limited Quantity |

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For air shipments of 29-ounce to 1 gallon sizes of this product or any shipment of this product in more than a one gallon container:

UN Number: UN1133  
UN Pack Group: III  
UN Class: 3  
ICAO/IATA Class: 3  
IMDG Class: 3  
Shipping Name: Adhesives containing a Flammable Liquid  
Packaging may not be approved for shipping by air.

**SECTION XV - REGULATORY INFORMATION**

**SARA TITLE III SECTION 313:**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Percent</u> |
|----------------------|-------------------|----------------|
| HEXANE               | 110-54-3          | 13.18          |
| TOLUENE              | 108-88-3          | 8.31           |

**-PROP 65 (TERATOGEN)**

**WARNING:** This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Percent</u> |
|----------------------|-------------------|----------------|
| TOLUENE              | 108-88-3          | 8.31           |

**TSCA (Toxic Substances Control Act Inventory):**

All components of this product are listed on the TSCA inventory except as exempted.

**PENNSYLVANIA:**

Hazardous components required to be listed at 1% or more:

Acetone; 2-propanone; 67-64-1

Toluene; benzene, methyl-; 108-88-3

Kaolin clay; kaolin; 1332-58-7

Hexane; hexane; 110-54-3

Crystalline silica; quartz; 14808-60-7

Non-hazardous ingredients required to be listed at 3%:

Petroleum hydrocarbon resin 68131-99-7; petroleum hydrocarbon resin 68132-00-3; styrene-butadiene rubber 9003-55-8

**NEW JERSEY:**

clay 1332-58-7, petroleum hydrocarbon resin 68131-99-7, styrene-butadiene rubber 9003-55-8, acetone 67-64-1, hexane 110-54-3

**SECTION XVI - OTHER INFORMATION**

**DISCLAIMER:**

While the information and recommendations set forth herein are believed to be accurate as of the data hereof, SRW Products makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.