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Material Safety Data Sheet

SRW Products

Retaining Wall & Paver Adhesive

1. Product and company identification

CAS #	Mixture
Synonym:	Non Known
Address:	SRW Products 32020 126th Street Princeton, MN 55371
Contact person:	SRW Products Technical Services
Telephone:	(800) 752-9326
In case of emergency:	(800) 424-9300
Reference number:	3195
Product code:	56442
Date of revision:	01-07-2015
Print date:	01-07-2015
Chemtrec (24 Hour):	(800) 424 - 9300
Chemtrec International:	(703) 527 - 3887
Product use:	Construction Adhesive
Product type:	Solvent based

2. Hazards identification

Emergency Overview

Physical state:	Liquid. [Paste.]
Color:	Beige.
Odor:	Solvent. [Strong]
Signal word:	Danger!

Hazard statements: EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.

Precautionary measures: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard

Routes of entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation: Toxic by inhalation. Irritating to respiratory system.
Ingestion: Harmful if swallowed.
Skin: Irritating to skin.
Eyes: Severely irritating to eyes. Risk of serious damage to eyes.

Potential chronic health effects

Chronic effects: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: Contains material which can impair female fertility.

Target organs: Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, the reproductive system, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Over-exposure signs/symptoms

Inhalation: Irritating to respiratory system. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. Adverse symptoms may include the following: respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths, skeletal malformations.

Ingestion: Harmful if swallowed.

Skin: Irritating to skin. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eyes: Irritating to eyes. This product may irritate eyes upon contact. Watering, redness

See toxicological information (Section 11)
Medical conditions: None known.
Aggravated by overexposure

3. Composition/information on ingredients

United States & Canada

Name	CAS number	%
acetone	67-64-1	10 - 25
n-hexane	110-54-3	10 - 25
toluene	108-88-3	5 - 10
Distillates (petroleum), hydro treated heavy naphthenic	64742-52-5	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product: Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Extinguishing media:

Suitable: Use dry chemical, CO_2, water spray (fog) or foam.

Not suitable: Do not use water jet.

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous thermal: Decomposition products may include the following materials:

Decomposition products: Carbon Monoxide
Carbon Dioxide

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental
pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Absorb with an inert material.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Do not store above the following temperature: 43.333°C (110°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Physical state: Liquid. [Paste.]
Flash point : Closed cup: -17.778°C (-0.0004°F) [Setaflash.]
Auto-ignition temperature : 252°C (485.6°F)
Flammable limits : Lower: 1.2%
Upper: 12.8%
Color: Beige.
Odor: Solvent. [Strong]
Boiling/condensation point: 49.444°C (121°F)
Relative density: 1.073
Volatility: 34% (w/w)
VOC (less water, less exempt solvents): 303 g/l
Solubility: Insoluble in the following materials: cold water.

10. Stability and reactivity

Chemical stability: The product is stable.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials: Highly reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Incompatibility: Reactive or incompatible with the following materials: acids and alkalis.

Conditions of reactivity: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

11. Toxicological information

Conclusion/Summary

Skin: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eyes: Moderately irritating to eyes.

Respiratory: High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

Sensitizer: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Chronic toxicity: No known side effects or critical hazards

Reproductive toxicity: Reproductive toxicant- Female
Toluene- in rats by inhalation

12. Ecological information

United States

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

n-hexane Acute LC50 2500 to 2980 ug/L Fresh water
Fish - Pimephales promelas - 31 days - 20.4 mm - 0.123 g
96 hours

acetone Acute EC50 20.565 mg/L Marine water Algae - Ulva pertusa 96 hours
Acute LC50 6000000 ug/L Fresh water Crustaceans - Gammarus pulex 48 hours
Acute LC50 10000 ug/L Fresh water Daphnia - Daphnia magna 48 hours
Acute LC50 5600 ppm Fresh water Fish - Poecilia reticulata - 4 to 12 months - 2 to 10 cm
96 hours
Chronic NOEC 0.1 ml/L Fresh water Daphnia - Daphnia magna - Neonate - 6 to 24 hours
21 days
toluene Acute EC50 12500 ug/L Fresh water Algae - Pseudokirchneriella subcapitata
72 hours
Acute EC50 11600 ug/L Fresh water Crustaceans - Gammarus pseudolimnaeus - Adult - 9 mm - 0.017 g
48 hours
Acute EC50 6000 ug/L Fresh water Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)
48 hours
Acute LC50 5500 ug/L Fresh water Fish - Oncorhynchus kisutch - Fry - 1 g
96 hours
Chronic NOEC 1000 ug/L Fresh water Daphnia - Daphnia magna - <=24 hours
21 days

Persistence/degradability: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. for additional handling information and protection of employees.

14. Transport information

DOT Classification

UN number:	**1133**
Proper Shipping Name:	**Adhesives, containing flammable liquid**
Class:	**3**
Packing Group:	**III**
Labeling:	**Flammable liquid(3)**
Additional Information:	**Limited Quantity**

15. Regulatory information

United States

HCS Classification

Flammable liquid
Toxic material
Irritating material

U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: toluene; acetone; n-hexane
SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

SRW Retaining Wall and Paver Adhesive: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

United States

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):	Listed
Clean Air Act Section 602 Class I Substances:	Not listed
DEA List I Chemicals (Precursor Chemicals):	Not listed
DEA List II Chemicals (Essential Chemicals):	Listed

SARA 313

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.
The following components are listed: HEXANE; ACETONE; TOLUENE

State Regulations:

Massachusetts: The following components are listed: n-Hexane; Volatile organic compounds; Toluene

New York: The following components are listed: Hexane; Acetone; 2-Propanone; Toluene

New Jersey: The following components are listed: n-HEXANE; HEXANE; MINERAL OIL (UNTREATED and MILDLY TREATED); ACETONE; 2-PROPANONE; TOLUENE; BENZENE, METHYL

Pennsylvania: The following components are listed: HEXANE; 2-PROPANONE; BENZENE, METHYL

California Prop. 65

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

Toluene- Cancer- No.
Reproductive- Yes.
Significant Risk level- No.
Maximum acceptable dosage level 7000 µg/day(ingestion)

Canada

WHMIS (Canada)

Class B-2: Flammable liquid
Class D-2A: Material causing other toxic effects (Very toxic).
Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI: The following components are listed: n-Hexane, Volatile organic compounds, Toluene

CEPA Toxic substances: The following components are listed: Volatile organic compounds

Canada inventory: All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Label Requirements: EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAYCAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.
REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE ADVERSE REPRODUCTIVE EFFECTS IN FEMALES.

Physical hazards

Hazardous Material:

Health: **2**
Flammability: **3**
Physical Hazards: **0**

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.
The customer is responsible for determining the PPE code for this material.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.