

# Safety Data Sheet

#### SRW SUPERIOR STRENGTH SOLVENT-BASED ADHESIVE

### Section 1. Identification

**GHS** product identifier SRW Retaining Wall

Adhesive: Liquid. **Product type Address** : SRW Products

32005 126th Street, PO Box 70

Princeton, MN 55371

**Contact person** SRW Products Technical

**Telephone** Services

In case of emergency : (800) 752-9326

: Chemtrec (800) 424-9300

**Product code** 

: A10/28 Date of revision : 02-21-2018. **Print date** : 02-21-2018. Chemtrec (24 Hour) : (800) 424 - 9300 **Chemtrec International** 

: (703) 527 - 3887

Relevant identified uses of the substance or mixture and uses advised against Not

applicable.

#### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE

**IRRITATION - Category 2A** 

TOXIC TO REPRODUCTION (Fertility) (inhalation) - Category 2 TOXIC

TO REPRODUCTION (Unborn child) (inhalation) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (peripheral nervous

system) (inhalation) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) (inhalation) -

Category 2

**GHS label** elements

**Hazard pictograms** 







Signal word : Danger

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#### Section 2. Hazards identification

#### **Hazard statements**

: Highly flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.

Suspected of damaging fertility or the unborn child if inhaled.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure if inhaled.

(peripheral nervous system)

May cause damage to organs through prolonged or repeated exposure if inhaled. (liver)

#### **Precautionary statements**

#### General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### **Prevention**

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. 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 attention.

#### **Storage**

: Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Supplemental label elements

: Avoid contact with skin and clothing. Wash thoroughly after handling.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

### **Hazardous ingredients**

#### **United States**

Name	CAS number	%
n-hexane	110-54-3	10 - 25
acetone	67-64-1	10 - 25
toluene	108-88-3	5 - 10
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.1 - 0.5

#### **Canada**

Name	CAS number	%
n-hexane	110-54-3	10 - 25
acetone	67-64-1	10 - 25
toluene	108-88-3	5 - 10

<u>Mexico</u>							Classification		

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### Section 3. Composition/information on ingredients

Name	CAS number	UN number	%	IDLH	Н	F	R	Special
n-hexane	110-54-3	UN1993	10 - 25	1100 ppm	1	3	1	-
acetone	67-64-1	UN1993	10 - 25	2500 ppm	2	3	0	-
toluene	108-88-3	UN1993	5 - 10	500 ppm	2	3	0	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact : Immediately

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get

medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be

kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Ingestion

**Eye contact** : Causes serious eyeirritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin.

**Ingestion**: Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

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#### Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Skin contact

> irritation redness dryness cracking

: No specific data. Ingestion

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

**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.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

media

Suitable extinguishing

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing media

Specific hazards arising from the chemical

: Do not use water iet.

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Special protective actions** for fire-fighters

: 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.

**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.

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#### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **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). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). 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.

### Section 7. Handling and storage

#### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store between the following temperatures: -17 to 40°C (1.4 to 104°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. Store locked up. 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.

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## Section 8. Exposure controls/personal protection

### Control parameters

### **United States**

### Occupational exposure limits

Ingredient name	Exposure limits
n-hexane	OSHA PEL 1989 (United States, 3/1989).  TWA: 50 ppm 8 hours.  TWA: 180 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  TWA: 50 ppm 10 hours.  TWA: 180 mg/m³ 10 hours.  ACGIH TLV (United States, 3/2016). Absorbed through skin.  TWA: 50 ppm 8 hours.  OSHA PEL (United States, 6/2016).  TWA: 500 ppm 8 hours.  TWA: 1800 mg/m³ 8 hours.
acetone	ACGIH TLV (United States, 3/2016).  TWA: 250 ppm 8 hours.  STEL: 500 ppm 15 minutes.  OSHA PEL 1989 (United States, 3/1989).  TWA: 750 ppm 8 hours.  TWA: 1800 mg/m³ 8 hours.  STEL: 1000 ppm 15 minutes.  STEL: 2400 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2013).  TWA: 250 ppm 10 hours.  TWA: 590 mg/m³ 10 hours.  OSHA PEL (United States, 6/2016).  TWA: 1000 ppm 8 hours.  TWA: 2400 mg/m³ 8 hours.
toluene	OSHA PEL 1989 (United States, 3/1989).  TWA: 100 ppm 8 hours.  TWA: 375 mg/m³ 8 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m³ 15 minutes.  OSHA PEL Z2 (United States, 2/2013).  TWA: 200 ppm 8 hours.  CEIL: 300 ppm  AMP: 500 ppm 10 minutes.  NIOSH REL (United States, 10/2013).  TWA: 100 ppm 10 hours.  TWA: 375 mg/m³ 10 hours.  STEL: 150 ppm 15 minutes.  STEL: 560 mg/m³ 15 minutes.  ACGIH TLV (United States, 3/2016).  TWA: 20 ppm 8 hours.

### **Canada**

Occupational exposure limits		TWA	TWA (8 hours)		STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
n-hexane	US ACGIH 3/2016 AB 4/2009 BC 7/2016	50 50 20	- 176	-	-	-	-	-	-	-	[1] [1]
	ON 7/2015 SK 7/2013	50 -	-	50 PPM	- -	-	62.5 PPM	- -	- -	- -	[1] [1] [1]
acetone	US ACGIH 3/2016 AB 4/2009 BC 7/2016 ON 7/2015 SK 7/2013	250 500 250 500	- 1200 - -	- - - - 500	500 750 500 750	- 1800 - -	- - - - 750	- - -	- - - -	- - - -	
toluene	US ACGIH 3/2016 AB 4/2009 BC 7/2016 ON 7/2015	20 50 20 20	- 188 -	PPM - - -	- - -	- - -	PPM - - - -	- - -	- - -	- - -	[1]

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SK 7/2013 - 50 60 [1]									

[1]Absorbed through skin.

#### **Mexico**

#### Occupational exposure limits

Ingredient	Exposure limits
n-hexane	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. LMPE-PPT: 50 ppm 8 hours.
acetone	NOM-010-STPS-2014 (Mexico, 4/2016). LMPE-PPT: 500 ppm 8 hours.
toluene	LMPE-CT: 750 ppm 15 minutes.  NOM-010-STPS-2014 (Mexico, 4/2016).  LMPE-PPT: 20 ppm 8 hours.

#### Consult local authorities for acceptable exposure limits.

## Appropriate engineering controls

: 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.

## Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

#### **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.

#### **Eye/face protection**

: 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

#### **Hand protection**

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Body protection**

: 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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Paste.]

Color : Beige.

Odor : Solvent. [Strong] **Odor threshold** : Not available. pН : Not applicable. **Melting point** : Not available. **Boiling point** : 56°C (132.8°F)

Flash point : Closed cup: -18°C (-0.4°F)[Setaflash.]

: Highly flammable in the presence of the following materials or conditions: open flames, Flammability (solid, gas)

sparks and static discharge.

Lower and upper explosive

: Lower: 1.2% (flammable) limits Upper: 12.8%

**VOC (less water, less** 

: 281 g/l

exempt solvents)

Relative density : 1.07365

**Solubility** : Insoluble in the following materials: cold water.

**Auto-ignition temperature** : 252°C (485.6°F)

### Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

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

**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** : 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.

### Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
n-hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Dermal	Rabbit	>3295 mg/kg	-
	LD50 Oral	Rat	15840 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	636 mg/kg	-
6,6'-di-tert-butyl-2,2'- methylenedi-p-cresol	LD50 Oral	Rat	4880 mg/kg	-

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### Section 11. Toxicological information

Conclusion/Summary

: Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
acetone	Eyes - Mild irritant	Human	-	186300 parts	-
				per million	
Eyes - Mild irritant	Eyes - Mild irritant	Rabbit	-	10 microliters	-
Eyes - Moderate irritant	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
Eyes - Severe irritant	Eyes - Severe irritant	Rabbit	_	milligrams 20 milligrams	_
Skin - Mild irritant	Skin - Mild irritant	Rabbit	_	24 hours 500	_
Okiii Wiiid ii iikani	Okin Wild Intant	Rabbit		milligrams	
Skin - Mild irritant	Skin - Mild irritant	Rabbit	-	395	-
				milligrams	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100	
				milligrams	
Eyes - Mild irritant	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
Eyes - Severe irritant	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
Skin - Mild irritant	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
Skin - Mild irritant	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
Skin - Moderate irritant	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		5		milligrams	
Skin - Moderate irritant	Skin - Moderate irritant	Rabbit	-	500	-
	E Ma danata inii	Date to		milligrams	
6,6'-di-tert-butyl-2,2'-	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
methylenedi-p-cresol				milligrams	

### 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.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	•	Development toxin	Species	Dose	Exposure
toluene	-	-	-	Rat	Inhalation	-

#### **Conclusion/Summary**

: Reproductive toxicant -female

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
SRW SUPERIOR STRENGTH SOLVENT-BASED ADHESIVE	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
n-hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
acetone toluene	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

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### Section 11. Toxicological information

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
SRW SUPERIOR STRENGTH SOLVENT-BASED ADHESIVE	Category 1	Inhalation	peripheral nervous system
	Category 2	Inhalation	liver
n-hexane	Category 1	Inhalation	peripheral nervous system
toluene	Category 2	Not determined	Not determined

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eyeirritation.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

: Adverse symptoms may include the following: Eye contact

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: **Skin contact** 

> irritation redness dryness cracking

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

effects

**Potential delayed effects** 

: Not available.

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

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### Section 11. Toxicological information

Potential delayed effects : Not available.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
n-hexane	Acute EC50 0.89 mg/l	Algae	96 hours
	Acute EC50 3.9 mg/l	Crustaceans	48 hours
	Acute LC50 2.5 mg/l	Fish - fathead minnow	96 hours
	Chronic NOEC 4.9 mg/l	Crustaceans	21 days
	Chronic NOEC 2.8 mg/l	Fish - rainbow trout	28 days
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna -	21 days
	01 1 1050 5 // 11 1	Neonate	40. 1
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
toluene	Acute EC50 12500 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

#### **Conclusion/Summary**

: Not available.

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-hexane	-	-	Readily
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-hexane acetone toluene 6,6'-di-tert-butyl-2,2'- methylenedi-p-cresol	4 -0.23 2.73 6.25	501.187 3 90 549.54	high low low high

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

#### **Disposal methods**

Other adverse effects

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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

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### Section 13. Disposal considerations

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.

#### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Acetone (I); 2-Propanone (I) Toluene; Benzene, methyl-	67-64-1	Listed	U002
	108-88-3	Listed	U220

### **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	UN1133	1133	1133	1133	1133	1133
UN proper shipping name	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid	ADHESIVES, containing flammable liquid
Transport hazard class(es)	3	3	3	3	3	3
Packing group	III	III	III	III	III	III
Environmental hazards	Yes.	No.	No.	No.	No.	No.
Additional information	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. <b>Reportable</b>	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 18-2.19 (Class 3).  Remarks Limited quantity	Remarks Limited quantity	Special provisions 640 (E)  Tunnel code (D/E)  Remarks Limited quantity	Remarks Limited quantity	The environmentally hazardous substance mark may appear if required by other transportation regulations.  Remarks Limited quantity

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14. Transport informa		
quantity 12163.7 lbs / 5522.3 kg [1358.8 gal / 5143.5 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.  Remarks Limited quantity		

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and

: Not available.

the IBC Code

## Section 15. Regulatory information

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined **U.S. Federal regulations** 

> United States inventory (TSCA All components are listed or exempted.

8b):

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602 Class I Substances

: Not listed

Clean Air Act Section 602

: Not listed

Class II Substances

**SARA 302/304** 

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

> Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

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### Section 15. Regulatory information

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
n-hexane acetone	10 - 25 10 - 25	Yes. Yes.	No. No.	No. No.	Yes. Yes.	Yes. No.
toluene 6,6'-di-tert-butyl-2,2'-methylenedi-p- cresol	5 - 10 0.1 - 0.5	Yes. Yes.	No. No.	No. No.	Yes. No.	Yes. Yes.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	acetone	67-64-1	10 - 25 10 - 25 5 - 10
Supplier notification	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.		10 - 25 5 - 10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

**Massachusetts**: The following components are listed: HEXANE; N-HEXANE; ACETONE; TOLUENE;

METHYLBENZENE

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

**New Jersey** : The following components are listed: n-HEXANE; HEXANE; 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.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 µg/day (ingestion)

#### **Canada**

#### **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.

#### **Mexico**

Classification :



#### International regulations

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### Section 15. Regulatory information

International lists

: Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined.

Korea inventory: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

Taiwan Chemical Substances Inventory (TCSI): Not determined.

Turkey inventory: Not determined.

**Europe** : Not determined.

Chemical Weapons
Convention List Schedule

I Chemicals

Chemical Weapons
Convention List Schedule

Convention List Schedule
II Chemicals

Chemical Weapons

Convention List Schedule III Chemicals

: Not listed

: Not listed

: Not listed

#### Section 16. Other information

#### **Hazardous Material Information System (U.S.A.)**



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 SDSs 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.

#### **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their ownrisk.

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#### **Section 16. Other information**

Date of issue/Date of

revision

Date of previous issue : 10/9/2017

Version : 5

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

**References**: Not available.

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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 quarantee that these are the only hazards that exist.