



# Material Safety Data Sheet

Product #'s: KX-511F

MSDS #: RTT-KX-007

Rev. # 1

Rev. Date: 10/10/2007

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: All Purpose Cement

Product Use: Adhesive

Manufacturer: KEX Tire Repair, 119 Rockland Avenue, Northvale, NJ 07647

24-Hour Emergency Phone Number: 1-800-424-9300 (CHEMTREC); 1-703-527-3887 (International) Collect calls accepted

## 2. PRODUCT INGREDIENTS

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER:</u>	<u>% RANGE:</u>	<u>OSHA PEL:</u>
Heptane (n-)	142-82-5	80-90	500 ppm TWA; 2000 mg/m <sup>3</sup> TWA
Trichloroethylene	79-01-6	5-10	100 ppm TWA
Zinc, bis(dibutylcarbamodithioato-S,S')-, (T-4)-	136-23-2	0.5-1.5	Not Established

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). The balance of ingredients not rated as hazardous as defined in 29 CFR 1910.1200. This product is regulated under the Canadian Controlled Products Regulations.

Remainder of components are either non-hazardous or below regulatory requirements.

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

The product is a blue or amber, viscous liquid with a typical hydrocarbon odor. Extremely flammable liquid. This product is harmful by inhalation, when in contact with the skin, eyes and if it is swallowed. A component may cause allergic skin reaction. A component is a probable cancer hazard. Overexposure may cause damage to the liver, lungs, and kidneys. Keep this product from heat, sparks, or open flame.

**EYE:** This product will produce pain and irritation of the eyes. Vapors may also produce eye irritation. Contact may cause stinging, watering, redness, swelling, and eye damage.

**SKIN:** This product may cause irritation to the skin. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact with this product may dry and/or defat the skin. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**INGESTION:** Aspiration hazard - Ingestion can cause vomiting. If aspirated (liquid enters the lung), the product may be rapidly absorbed through the lungs and can result in chemical pneumonia and pulmonary edema, which is a potentially fatal condition. (DO NOT INDUCE VOMITING.)



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**INHALATION:** This product may be harmful by inhalation. Vapors of this product may cause irritation of the nose, throat, and respiratory tract. High vapor concentrations may produce central nervous system (CNS) depression. Alcohol consumption before or after exposure may increase adverse effects.

## 4. FIRST AID

**EYES:** Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

**SKIN:** For skin contact flush with large amounts of water while removing contaminated clothing. Wash affected area with mild soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

**INGESTION:** Aspiration hazard: If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not induce vomiting. Call a physician immediately.

**INHALATION:** If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

**NOTE TO PHYSICIAN:** Provide general supportive measures and treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**Flash Point:** 7 °F

**Upper Flammable Limit (UFL):** 7%

**Flammability Classification:** Class 1B

**Method Used:** SFCC

**Lower Flammable Limit (LFL):** 1.2%

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion or thermal decomposition of the product may generate toxic gases and particulate that may include: carbon monoxide, hydrogen chloride and phosgene.

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide, water fog.

**FIRE FIGHTING INSTRUCTIONS:** DANGER, EXTREMELY FLAMMABLE! Clear fire area of unprotected personnel and isolate.

**PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:** Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**CONTAINMENT PROCEDURES:** Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Handling equipment must be grounded to prevent sparking. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.



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**CLEAN-UP PROCEDURES:** Eliminate ignition sources including sources of electrical, static or frictional sparks. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into properly labeled closed metal containers for disposal. Place in non-leaking containers for immediate disposal. Flush area with water to remove trace residue. Do not allow the spilled product to enter public drainage system or open water courses.

**EVACUATION PROCEDURES:** Persons not wearing appropriate protective equipment should be excluded from area of spill until clean up has been completed.

**SPECIAL PROCEDURES:** Follow all Local, State, Federal and Provincial regulations for disposal. Notify the proper authorities if entry to the environment occurs.

## 7. HANDLING & STORAGE

**HANDLING:** Keep liquid and vapor away from heat, sparks and flames. Keep containers closed and upright, when not in use. Use with adequate ventilation. Containers, even those that have been emptied, can contain explosive vapors. Empty containers should not be re-used. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of. DO NOT cut, drill, grind, weld or perform similar operations on or near containers. Ground fixed equipment. Bond and ground transfer containers and equipment.

Wash thoroughly after handling. Avoid breathing vapors or mists of this product. DO NOT eat, drink or smoke in product area. Avoid contact with skin and eyes.

**STORAGE:** Keep packaged in original, labeled containers until use. Store in a cool, dry, well-ventilated area. Do not remove or deface label. Do not handle or store near an open flame, heat or other sources of ignition. Do not puncture, drag, or slide container. Keep the container tightly closed.

Refer to OSHA 29 CFR Part 1910.106, "Flammable Combustible Liquids" for specific storage requirements.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/ air mixtures from accumulating.

### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION:** Wear safety glasses. Chemical goggles and/ or face shields should be worn, when splashing is a possibility. Contact lenses should not be exposed.

**SKIN PROTECTION:** If this product is used in accordance with instructions on the container, the risk of skin contact is minimal. If skin contact is likely, wear chemically resistant gloves. Wash contaminated clothing before reuse.



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**RESPIRATORY PROTECTION:** If occupational limits are exceeded, use a NIOSH/ MSHA approved chemical/ mechanical respirator designed to remove a combination of particulate and organic vapor. Observe OSHA regulations (29 CFR 1910.134) for respirator use.

**EXPOSURE GUIDELINE(s):**

**Component Exposure Limits**

KEX Tire Repair recommends that its customers minimize employee exposure. KEX therefore suggests that its customers consider adopting the lower of the current OSHA PEL or the ACGIH TLV's for the purpose of evaluating employee exposures. The TLV's recommended by the ACGIH have been updated on a continuing basis.

**Heptane (n-) (142-82-5)**

ACGIH:	400 ppm TWA 500 ppm STEL
OSHA:	500 ppm TWA; 2000 mg/m3 TWA
NIOSH:	85 ppm TWA; 350 mg/m3 TWA 440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)

**Trichloroethylene (79-01-6)**

ACGIH:	50 ppm TWA 100 ppm STEL
OSHA:	100 ppm TWA 200 ppm Ceiling

**Component Exposure Limits - Canada**

The following Provincial Exposure Limits apply for this product's components.

**Heptane (n-) (142-82-5)**

Alberta:	400 ppm TWA; 1640 mg/m3 TWA 500 ppm STEL; 2050 mg/m3 STEL
British Columbia:	400 ppm TWA 500 ppm STEL
Manitoba:	400 ppm TWA; 1600 mg/m3 TWA 500 ppm STEL; 2000 mg/m3 STEL
New Brunswick:	400 ppm TWA; 1640 mg/m3 TWA 500 ppm STEL; 2050 mg/m3 STEL
NW Territories:	400 ppm TWA; 1640 mg/m3 TWA 500 ppm STEL; 2049 mg/m3 STEL
Nova Scotia:	400 ppm TWA 500 ppm STEL
Nunavut:	400 ppm TWA; 1640 mg/m3 TWA 500 ppm STEL; 2049 mg/m3 STEL
Ontario:	400 ppm TWAEV; 1635 mg/m3 TWAEV 500 ppm STEV; 2045 mg/m3 STEV
Quebec:	400 ppm TWAEV; 1640 mg/m3 TWAEV 500 ppm STEV; 2050 mg/m3 STEV
Saskatchewan:	1640 mg/m3 TWA; 400 ppm TWA 2050 mg/m3 STEL; 500 ppm STEL
Yukon:	400 ppm TWA; 1600 mg/m3 TWA 500 ppm STEL; 2000 mg/m3 STEL



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## Trichloroethylene (79-01-6)

Alberta:	50 ppm TWA; 269 mg/m <sup>3</sup> TWA 100 ppm STEL; 537 mg/m <sup>3</sup> STEL
British Columbia:	50 ppm TWA 100 ppm STEL
Manitoba:	50 ppm TWA; 270 mg/m <sup>3</sup> TWA 200 ppm STEL; 1080 mg/m <sup>3</sup> STEL
New Brunswick:	50 ppm TWA; 269 mg/m <sup>3</sup> TWA 100 ppm STEL; 537 mg/m <sup>3</sup> STEL
NW Territories:	100 ppm TWA; 537 mg/m <sup>3</sup> TWA 150 ppm STEL; 806 mg/m <sup>3</sup> STEL
Nova Scotia:	50 ppm TWA 100 ppm STEL
Nunavut:	100 ppm TWA; 537 mg/m <sup>3</sup> TWA 150 ppm STEL; 806 mg/m <sup>3</sup> STEL
Ontario:	50 ppm TWAEV 100 ppm STEV
Quebec:	50 ppm TWAEV; 269 mg/m <sup>3</sup> TWAEV 200 ppm STEV; 1070 mg/m <sup>3</sup> STEV
Saskatchewan:	269 mg/m <sup>3</sup> TWA; 50 ppm TWA 537 mg/m <sup>3</sup> STEL; 100 ppm STEL
Yukon:	100 ppm TWA; 535 mg/m <sup>3</sup> TWA 150 ppm STEL; 800 mg/m <sup>3</sup> STEL

## 9. PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE:** Blue or amber, viscous liquid.

**ODOR:** Typical hydrocarbon      **ODOR THRESHOLD:** 9.77 ppm (heptane); 1.36 ppm (trichloroethylene)

**BOILING POINT:** 120-200 °F (48.9 - 93.3 °C)

**SOLUBILITY IN WATER:** Negligible (less than 1%)

**SPECIFIC GRAVITY:** 0.70 @ 60 °F (15.6°C)

**VAPOR PRESSURE:** 119 @ 100 °F (37.8 °C)

**% VOLATILE:** 95% Minimum by weight (Max. VOC Content= 664 g/L)

## 10. STABILITY & REACTIVITY

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid contact with strong acids, alkalies, and oxidizers such as liquid chlorine and oxygen.

**HAZARDOUS POLYMERIZATION:** Will not occur.



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**DECOMPOSITION PRODUCTS:** Thermal decomposition may release carbon monoxide, carbon dioxide, hydrogen chloride, traces of phosgene, and unidentifiable organic materials.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Liquid is minimally irritating to the eyes, skin, nose, throat and respiratory tract. Ingestion may cause vomiting.

### CHRONIC TOXICITY

Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis. Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. May affect the gastrointestinal system. May affect the blood and blood-forming organs.

### CARCINOGENICITY

Trichloroethylene is probably carcinogenic to humans.

#### Component Carcinogenicity

##### Trichloroethylene (79-01-6)

ACGIH: A5 - Not Suspected as a Human Carcinogen  
 NIOSH: potential occupational carcinogen  
 NTP: Reasonably Anticipated To Be A Carcinogen (Possible Select Carcinogen)  
 IARC: Monograph 63, 1995 (Group 2A (probably carcinogenic to humans))

## 12. ECOLOGICAL INFORMATION

No information available for the product. Components of this product are hazardous to aquatic life.

#### Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Heptane (n-) (142-82-5)

Test & Species		Conditions
24 Hr LC50 goldfish	4.0 mg/L	
24 Hr LC50 mosquito fish	4900 mg/L	
96 Hr LC50 cichlid fish	375.0 mg/L	

##### Trichloroethylene (79-01-6)

Test & Species		Conditions
96 Hr LC50 fathead minnow	44.1 mg/L	flow-through



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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL:** Waste must be handled in accordance with all federal, state, provincial, and local regulations.

### UNUSED & UNCONTAMINATED PRODUCT:

#### Component Waste Numbers

#### Trichloroethylene (79-01-6)

RCRA:

waste number U228  
0.5 mg/L regulatory level

The product as a whole is a D001 (ignitable waste).

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

## 14. TRANSPORT INFORMATION

### US DOT Information

**Shipping Name:** Adhesives (Contains: Heptane (n-))

**UN/NA #:** UN1133 **Hazard Class:** 3 **Packing Group:** II

**Required Label(s):** Flammable Liquid

**Additional Info.:** PLACARD (WHEN REQUIRED): FLAMMABLE LIQUID, 3

EXCEPTIONS: DOT Paragraphs 173.150 & 173.173.

ALTERNATE SHIPPING ARRANGEMENTS: Based on package or shipping container size, this product may be shipped as a, "Limited Quantity", or, renamed, "Consumer Commodity" and reclassified as, "ORM-D" Material.

### TDG Information

**Shipping Name:** Adhesives (Contains: Heptane (n-))

**UN/NA #:** UN1133 **Packing Group:** II

**Required Label(s):** Flammable Liquid

### IMDG Information

**Additional Info.:** EmS No. = 3-05 MFAG Table No. = 330 IMDG Class: 3.2

**Exceptions:** For package and container size when Shipped as Limited Quantity under packing instruction P001, Provision PP1 and Chapter 3.4 (Limited Quantity).

### IATA Information

**Additional Info.:** 3



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## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### SARA 313 INFORMATION:

##### Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 313 (40 CFR 372.65).

##### Trichloroethylene (79-01-6)

SARA 313:

0.1 % de minimis concentration

#### SARA HAZARD CATEGORY:

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactive: No

### COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):

#### Component Analysis

This material contains one or more of the following chemicals required to be identified under CERCLA (40 CFR 302.4).

##### Trichloroethylene (79-01-6)

CERCLA:

100 lb final RQ; 45.4 kg final RQ

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All components are on the U.S. EPA TSCA Inventory List.

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Heptane (n-)	142-82-5	Yes	DSL	EINECS
Trichloroethylene	79-01-6	Yes	DSL	EINECS
Zinc, bis(dibutylcarbamodithioato-S,S')-, (T-4)-	136-23-2	Yes	DSL	EINECS

### STATE RIGHT-TO-KNOW:

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Heptane (n-)	142-82-5	Yes	Yes	Yes	Yes	Yes	Yes
Trichloroethylene	79-01-6	Yes	Yes	Yes	Yes	Yes	Yes

This product is not a consumer product. This product may not be legally authorized for consumer use or sale in a state that has adopted the OTC Model Rule, or in California pursuant to the Consumer Products Regulation of the California Air Resources Board, or in states with similar laws. Please check federal, state, and local air control laws for guidance.

### CANADIAN REGULATIONS

#### WHMIS INFORMATION:

WHMIS Classification: B2, D2A, D2B



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### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Heptane (n-)	142-82-5	1 % (English Item 806, French Item 940)
Trichloroethylene	79-01-6	1 % (English Item 1612, French Item 1646)

### EUROPE:

#### Component Analysis

Component (CAS#)	EC #
Heptane (n-) (142-82-5)	205-563-8
Trichloroethylene (79-01-6)	201-167-4
Zinc, bis(dibutylcarbamodithioato-S,S')-, (T-4)- (136-23-2)	205-232-8

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

WARNING! This product contains a chemical known to the state of California to cause cancer.

## 16. OTHER INFORMATION

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

<p><b>MEDICAL EMERGENCIES:</b></p> <p>Call CHEMTREC 24 hours a Day for emergency information 800-424-9300</p>	<p><b>FOR ANY OTHER INFORMATION:</b></p> <p><b>KEX TIRE REPAIR</b> 119 Rockland Avenue Northvale, NJ 07647 201-768-8100</p>
<p><b>NOTICE:</b> Kex Tire Repair, believes that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.</p>	
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