

# SAFETY DATA SHEET



Date Issued : 6/5/2014  
MSDS No : 2012

## BRAKE CLEAN 2 SR

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** BRAKE CLEAN 2 SR

#### MANUFACTURER

Tarr Acquisition, LLC  
4115 W. Turney Ave.  
Phoenix, AZ 85019

**Product Stewardship:** 602-233-2000

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC (US Transportation)** :(800) 424 - 9300  
**CANUTEC (Canadian Transportation)** :(613) 996 - 6666

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Environmental:

Flammable Liquids, Category 2

#### GHS LABEL



Flame

#### HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** DANGER! Highly flammable liquid and vapor. Harmful or fatal if swallowed.

Vapor harmful. May cause central nervous system depression. May be irritating to eyes, skin, nose, throat and respiratory tract.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Moderately irritating to the eyes.

**SKIN:** Mildly irritating to the skin.

**INGESTION:** Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat and liver damage.

**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

**MEDICAL CONDITIONS AGGRAVATED:** Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

**BRAKE CLEAN 2 SR****3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Vol. %	CAS
n-Heptane	30 - 40	142-82-5
Methanol	30 - 40	67-56-1
Isopropyl Alcohol	20 - 30	67-63-0
Acetone	5 - 10	67-64-1
Toluene	5 - 10	108-88-3
Water	0 - 0.5	7732-18-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.

**SKIN:** Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

**INGESTION:** Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2 glasses of water and induce vomiting by giving 30cc syrup of ipecac (or touching finger to the back of victim's throat). Keep victim's head below hips while vomiting. Call doctor.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE TOXICITY:** Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis (bluish skin). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Class IB flammable liquid.

**EXTINGUISHING MEDIA:** Use water fog, "alcohol" foam, dry chemical, or CO<sub>2</sub>.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

**6. ACCIDENTAL RELEASE MEASURES**

**BRAKE CLEAN 2 SR****ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep material out of storm sewers and ditches which lead to waterways.

**GENERAL PROCEDURES:** WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
Chemical Name	EXPOSURE LIMITS						
	OSHA PEL	ACGIH TLV	SupplierOEL	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
n-Heptane	TWA	500 %	2000	400 %			
	STEL			500			
Methanol	TWA	200	260	200	262		
	STEL			250	328		
Isopropyl Alcohol	TWA	400	980	200	490	NL <sup>[1]</sup>	NL <sup>[1]</sup>
	STEL			400	960	NL	NL
Acetone	TWA	1000	2400	500			
	STEL			750			
Toluene	TWA	200		50 <sup>[3]</sup>	188 <sup>[3]</sup>		
	STEL	300 <sup>[2]</sup>	[2]				

**OSHA TABLE COMMENTS:**

1. NL = Not Listed
2. C = Ceiling
3. S = Skin

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

**BRAKE CLEAN 2 SR****PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Mild odor.

**APPEARANCE:** Clear

**COLOR:** Water-white.

**pH:** Essentially neutral.

**PERCENT VOLATILE:** 100

**FLASHPOINT AND METHOD:** (-4°F) to (53°F) Closed Cup

**Notes:** Acetone has the lowest flash point of any of the constituents at -4 deg F, Heptane next at 15 deg F, then Toluene at 43 deg F, Methanol next at 51 deg F, and finally IPA at 53 deg F. The largest percentage of product is Heptane and combined with acetone have the largest impact on the flash point. While the flash point will be between -4 deg F and 53 deg F, it will be much closer to the lower temperature than the higher.

**FLAMMABLE LIMITS:** Not determined.

**AUTOIGNITION TEMPERATURE:** Not Determined

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** (148°F) to (212°F)

**FREEZING POINT:** NDA = no data available.

**SOLUBILITY IN WATER:** Partially Soluble

**EVAPORATION RATE:** Not Determined

**DENSITY:** 6.3765 at (60°F)

**SPECIFIC GRAVITY:** 0.7648 at 60 deg F

**(VOC):** 5.978 LBS./gal.

**10. STABILITY AND REACTIVITY**

**BRAKE CLEAN 2 SR****STABLE:** Yes**HAZARDOUS POLYMERIZATION:** No**POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed.**INCOMPATIBLE MATERIALS:** Acids and oxidizers.**11. TOXICOLOGICAL INFORMATION****ACUTE**

Chemical Name	ORAL LD <sub>50</sub> (rat)
Acetone	5800 mg/kg (Rat)

**REPRODUCTIVE EFFECTS:** 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. Methanol has caused birth defects in laboratory animals, but only when inhaled at extremely high vapor concentrations. The relevance of this finding to humans is uncertain.**GENERAL COMMENTS:** The methanol component is poisonous. May be fatal or cause blindness if enough swallowed. Cannot be made non-poisonous.**12. ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.**13. DISPOSAL CONSIDERATIONS****DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.**EMPTY CONTAINER:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**BRAKE CLEAN 2 SR****PROPER SHIPPING NAME:** Flammable Liquids, n.o.s. (Heptane, Methanol)**PRIMARY HAZARD CLASS/DIVISION:** 3**UN/NA NUMBER:** UN 1993**PACKING GROUP:** II**NAERG:** 127**LABEL:** Flammable liquid**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable  
Liquid

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** Methanol (CAS 67-56-1), Toluene (CAS 108-88-3)

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

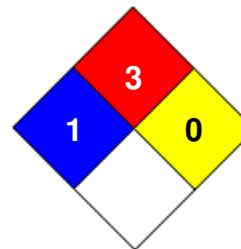
**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** Listed.

**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**16. OTHER INFORMATION****PREPARED BY: COMPLIANCE****HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>1</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>G</b>

**NFPA CODES**

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

## BRAKE CLEAN 2 SR

**MANUFACTURER DISCLAIMER:** The information contained herein is based on the data available to us and is believed to be accurate. However, Tarr Acquisition, LLC (Tarr, LLC) makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Tarr, LLC assumes no responsibility for injuries from the use of the product described herein.