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<b>PRODUCT NAME:</b>	Brakleen Brake Parts Cleaner - Non-chlorinated (aerosol)
<b>EMAIL:</b>	www.crcindustries.com
<b>CHEMTREC:</b>	(800) 424-9300
<b>Customer Service:</b>	(800) 272-4620
<b>Technical Assistance:</b>	(800) 521-3168
<b>BUSINESS PHONE:</b>	(215) 674-4300
<b>MANUFACTURER NAME:</b>	CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974
<b>PRODUCT NUMBER:</b>	05084, 05084-6
<b>TRADE NAME:</b>	Brakleen® Brake Parts Cleaner - Non-chlorinated (aerosol)

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient Name	CAS#	Ingredient Percent
Acetone	67-64-1	45 - 55 by Weight
Toluene	108-88-3	25 - 35 by Weight
Methanol	67-56-1	10 - 20 by Weight
Carbon dioxide	124-38-9	5 - 10 by Weight

**SECTION 3 - HAZARDS IDENTIFICATION**

<b>EMERGENCY OVERVIEW:</b>	<b>DANGER</b> Extremely Flammable. Harmful or Fatal if Swallowed. May Cause Blindness if Swallowed. Vapor Harmful. Eye and Skin Irritant. Contents Under Pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous.
<b>Appearance &amp; Odor:</b>	Clear liquid; solvent odor
<b>EYE CONTACT:</b>	Moderate eye irritant. Exposure can cause irritation including stinging, tearing, redness, blurred vision, and swelling of the eyes.
<b>SKIN CONTACT:</b>	Moderate skin irritant. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.
<b>INHALATION:</b>	Breathing large amounts of this material may be harmful. Symptoms include irritation of the nose and throat and central nervous system excitation (giddiness), followed by CNS depression (dizziness, drowsiness, weakness, headache, nausea, unconsciousness).
<b>INGESTION:</b>	Swallowing small amounts is not likely to cause harmful effects. May cause stomach or intestinal upset. Swallowing larger amounts may be harmful as this material may be aspirated into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.
<b>CHRONIC EFFECTS:</b>	Overexposure to methanol may lead to visual impairment.
<b>Target Organ Effects:</b>	liver, kidneys, blood, central nervous system, eyes
<b>AGGRAVATION OF CONDITIONS:</b>	skin sensitivities, lung conditions, central nervous system conditions
<b>Hazards Comments:</b>	See Section 11 for toxicology and carcinogenicity information on product ingredients.

**SECTION 4 - FIRST AID MEASURES**

<b>EYE CONTACT:</b>	Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
<b>SKIN CONTACT:</b>	Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
<b>INHALATION:</b>	Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
<b>INGESTION:</b>	Seek medical attention. Do not induce vomiting unless instructed by medical personnel. Have victim drink a glass of water if conscious.
<b>NOTE TO PHYSICIANS:</b>	This material is an aspiration hazard. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This product contains methanol. The metabolites of methanol can cause metabolic acidosis, visual disturbances and blindness.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>FLAMMABLE PROPERTIES:</b>	This product is extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).
<b>FLASH POINT:</b>	< 0 F (TCC)
<b>FLAMMABLE LIMITS - UEL:</b>	12.8
<b>AUTOIGNITION TEMPERATURE:</b>	725 F
<b>FLAMMABLE LIMITS - LEL:</b>	2.6
<b>EXTINGUISHING MEDIA:</b>	dry chemical, carbon dioxide, alcohol-resistant foam, class B extinguishers
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	oxides of carbon
<b>PROTECTIVE EQUIPMENT:</b>	Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Vapors are heavier than air and will accumulate

near the ground. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

<b>PERSONNEL PRECAUTIONS:</b>	Use personal protection recommended in Section 8.
<b>ENVIRONMENTAL DATA:</b>	Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.
<b>SPILL CLEAN UP MEASURES:</b>	Eliminate sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

## SECTION 7 - HANDLING and STORAGE

<b>HANDLING:</b>	Do not use near potential sources of ignition. Do not use on energized equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid inhaling vapors.
<b>STORAGE:</b>	Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.
<b>AEROSOL STORAGE LEVEL:</b>	III

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

<b>ENGINEERING CONTROLS:</b>	Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.
<b>RESPIRATORY PROTECTION:</b>	None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.
<b>EYE PROTECTION:</b>	For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.
<b>SKIN PROTECTION:</b>	Use protective gloves such as nitrile, PVA, or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.
<b>Ingredient Guideline Notes:</b>	N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated
<b>Ingredient:</b>	Acetone
<b>Guideline Info:</b>	OSHA TWA: 1000; OSHA STEL: NE; ACGIH TWA: 500; ACGIH STEL: 750; OTHER TWA: NE; UNIT: ppm
<b>Ingredient:</b>	Toluene
<b>Guideline Info:</b>	OSHA TWA: 200; OSHA STEL: 300 (c); ACGIH TWA: 20; ACGIH STEL: NE; OTHER TWA: NE; UNIT: ppm
<b>Ingredient:</b>	Methanol
<b>Guideline Info:</b>	OSHA TWA: 200; OSHA STEL: NE; ACGIH TWA: 200; ACGIH STEL: 250 (s); OTHER TWA: NE; UNIT: ppm
<b>Ingredient:</b>	Carbon dioxide
<b>Guideline Info:</b>	OSHA TWA: 5000; OSHA STEL: 30000(v); ACGIH TWA: 5000; ACGIH STEL: 30000; OTHER TWA: NE; UNIT: ppm

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	liquid
<b>COLOR:</b>	clear
<b>ODOR:</b>	solvent
<b>SPECIFIC GRAVITY:</b>	0.814
<b>INITIAL BOILING POINT:</b>	132 F
<b>FREEZING POINT:</b>	ND
<b>VAPOR PRESSURE:</b>	ND
<b>VAPOR DENSITY:</b>	> 1 (air = 1)
<b>EVAPORATION RATE:</b>	> 1 (butyl acetate = 1)
<b>SOLUBILITY:</b>	slightly soluble in water
<b>pH:</b>	NA
<b>VOLATILE ORGANIC COMPOUNDS:</b>	wt % : 43.8 g/L : 356.5 lbs./gal: 2.97

## SECTION 10 - STABILITY and REACTIVITY

<b>STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Sources of ignition; temperature extremes
<b>INCOMPATIBLE MATERIALS:</b>	Acids, alkalis, reducing agents, strong oxidizing agents, hypochlorites, peroxides, reactive metals such as aluminum and magnesium, sodium, zinc
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon, various hydrocarbons
<b>DANGEROUS REACTIONS:</b>	No

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>OSHA:</b>	None listed
<b>IARC:</b>	None listed
<b>NTP:</b>	None listed
<b>MUTAGENICITY:</b>	No information available
<b>Toxicological Comments:</b>	Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.
<b>Chemical Name:</b>	Acetone
<b>ACUTE TOXICITY (Ingredient):</b>	Test: LD50; Result: 5800 mg/kg; Route: Oral; Species: Rat
<b>Chemical Name:</b>	Acetone

**ACUTE TOXICITY (Ingredient):** Test: LC50; Result: 16,000 ppm/4H; Route: Inhalation; Species: Rat  
**Chemical Name:** Acetone  
**ACUTE TOXICITY (Ingredient):** Test: LD50; Result: 20,000 mg/kg; Route: Dermal; Species: Rabbit  
**Chemical Name:** Methanol  
**ACUTE TOXICITY (Ingredient):** Test: LD50; Result: 5045 mg/kg; Route: Oral; Species: Rat  
**Chemical Name:** Methanol  
**ACUTE TOXICITY (Ingredient):** Test: LD50; Result: 12,800 mg/kg; Route: Dermal; Species: Rabbit

#### SECTION 12 - ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** Acetone – 48H LC50 Daphnia: 10 mg/l  
**Persistence / Degradability:** No information available  
**BIOACCUMULATION:** No information available  
**MOBILITY:** No information available  
**Ecological Comments:** Ecological studies have not been conducted for this product. The following information is available for components of this product.

#### SECTION 13 - DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the following potential waste code(s): D001, F003, F005 (See 40 CFR Part 261.20 – 261.33). Aerosol containers should be fully emptied and depressurized before disposal. All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

#### SECTION 14 - TRANSPORT INFORMATION

**DOT:** Consumer Commodity, ORM-D  
**Special Provisions:** None

#### SECTION 15 - REGULATORY INFORMATION

**ADDITIONAL INFORMATION:** This product cannot be sold for use in California. In other states with consumer products VOC regulations, this product is compliant as a 'Brake Cleaner'.  
**STATE RIGHT TO KNOW:** New Jersey: 67-64-1, 108-88-3, 67-56-1, 124-3 Pennsylvania: 67-64-1, 108-88-3, 67-56-1, 124-3 Massachusetts: 67-64-1, 108-88-3, 67-56-1, 124-3 Rhode Island : 67-64-1, 108-88-3, 67-56-1, 124-3  
**California Proposition 65:** This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Toluene  
**SECTION 302 EHS:** None  
**311/312 Hazard Categories:** Fire Hazard Yes Reactive Hazard No Release of Pressure Yes Acute Health Hazard Yes Chronic Health Hazard No  
**SECTION 313:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Toluene (< 30%), Methanol (< 20%)  
**SECTION 112 HAPS:** Toluene, Methanol  
**TSCA INVENTORY STATUS:** All ingredients are either listed on the TSCA inventory or are exempt.  
**CERCLA:** Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs), Toluene (1000 lbs), Methanol (5000 lbs) Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### SECTION 16 - ADDITIONAL INFORMATION

**NFPA - FIRE:** 3  
**NFPA - REACTIVITY:** 0  
**NFPA - HEALTH:** 2  
**ABBREVIATIONS:** CAS: Chemical Abstract Service NA: Not Applicable ppm: Parts per Million ND: Not Determined TCC: Tag Closed Cup NE: Not Established PMCC: Pensky-Martens Closed Cup g/L: grams per Liter PPE: Personal Protection Equipment lbs./gal: pounds per gallon TWA: Time Weighted Average STEL: Short Term Exposure Limit OSHA: Occupational Safety and Health Administration ACGIH American Conference of Governmental Industrial Hygienists NIOSH National Institute of Occupational Safety & Health  
**DISCLAIMER:** The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.  
**Revision Changes:** Section 15: Additional Regulatory Information revised  
**MSDS REVISION DATE:** 01/08/2009  
**CRC #:** 594M/Q  
**MSDS AUTHOR:** Michelle Rudnick  
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**HMIS - FLAMMABILITY:** 3  
**HMIS - REACTIVITY:** 0  
**HMIS - PERSONAL PROTECTION:** B