

Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Brakleen® Non-Chlorinated Brake Parts Cleaner (Aerosol)

50 State Formula

Product Number (s): 05050, 05050-6

Manufactured By:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

General Information

Technical Assistance
(800) 521-3168

Customer Service
(800) 272-4620

24-Hr Emergency (CHEMTREC)
(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Clear colorless liquid, solvent odor

DANGER

Extremely Flammable. Vapors May Cause Flash Fires. Harmful or Fatal if Swallowed. Eye and Skin Irritant. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: Eye irritant. Contact may cause moderate to severe eye irritation including stinging, watering

and redness.

SKIN: Skin irritant. Contact may cause redness, itching, burning, and skin damage. Prolonged or

repeated contact can worsen irritation by causing drying and cracking of the skin, leading to

dermatitis (inflammation).

INHALATION: Low to moderate degree of toxicity by inhalation. Effects of overexposure may include

irritation to the respiratory tract and signs of nervous system depression (headache,

drowsiness, dizziness, loss of coordination, disorientation and fatigue).

INGESTION: Main hazard is aspiration. This material can enter lungs during swallowing or vomiting and

cause lung inflammation and damage. Swallowing this material may also cause nausea and

diarrhea. Acetone poisoning may result in liver and kidney damage.

CHRONIC EFFECTS: Exposure to high concentrations of this material may increase the sensitivity of the heart to

certain drugs. Reports have associated repeated and prolonged overexposure to solvents

with permanent brain and nervous system damage.

TARGET ORGANS: Liver, kidney, central nervous system.

Medical Conditions Aggravated by Exposure: skin disorders, respiratory (asthma-like) disorders

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.	
Heptane isomers	142-82-5	5 - 20	
Acetone	67-64-1	70 - 85	
Carbon dioxide	124-38-9	8 - 13	

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician

if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If

breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting or give anything by mouth because material can enter the lungs and

cause severe lung damage. Seek medical attention immediately.

Note to Physicians: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons

exposed to high concentrations of hydrocarbon solvents. The use of other drugs with less

arrhythmogenic potential should be considered.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability

definitions (16 CFR 1500.3(c)(6)).

Flash Point: < 0 F (TCC) Upper Explosive Limit: 12.8 Autoignition Temperature: 869 F Lower Explosive Limit: 2.5

Suitable Extinguishing Media: Dry chemical, carbon dioxide or foam is recommended.

Products of Combustion: Oxides of carbon

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for

protection against suffocation and possible toxic decomposition products. 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. Avoid spreading burning liquid with water used for cooling purposes.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush

into sewers or storm drains.

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Methods for Containment & Clean-up: Eliminate all potential 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

Handling Procedures: Do not use on or around any potential sources of ignition or live equipment. Do not touch

container to electrical sources as container will conduct electricity. Wash thoroughly after

use and before handling food.

Storage Procedures: Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Use and store

this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal

surfaces, and all sources of ignition. Keep away from incompatible material.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Heptane isomers	500	NE	400	500	NE		ppm
Acetone	750 (v)	1000 (v)	500	750	NE		ppm
Carbon dioxide	5000	30000(v)	5000	30000	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation

of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure

guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use a NIOSH-

approved cartridge respirator with an organic vapor cartridge if vapors exceed exposure limits. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid

contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, PVA or Viton®. Also, use full protective clothing if

there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid Color: clear, colorless

Odor: solvent

Specific Gravity: 0.770 - 0.780

Product Number (s): 05050, 05050-6

Initial Boiling Point: 132 F Freezing Point: < -100 F Vapor Pressure: ND

Vapor Density: 2 (air = 1)

Evaporation Rate: fast

Solubility: slightly soluble in water

pH: NA

Volatile Organic Compounds: wt %: < 20 g/L: < 140 lbs./qal: < 1.2

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition, temperature extremes

Incompatible Materials: Avoid contact with acids and oxidizers such as chlorine and other halogens, chromates,

perchlorates, peroxides and oxygen.

Hazardous Decomposition Products: oxides of carbon

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

Component	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
n-heptane	LD50	103 g/m³/4H	Inhalation	Rat
acetone	LD50	76 mg/L/4H	Inhalation	Rat
acetone	LD50	1800 mg/kg	Oral	Rat
n-heptane	LD50	> 15 g/kg	Oral	Mouse

CHRONIC EFFECTS

Carcinogenicity:

<u>Component</u> Result

OSHA: none listed IARC: none listed NTP: none listed

Mutagenicity: no information available

Other: none

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Product Number (s): 05050, 05050-6

Ecotoxicity: n-heptane - 24 Hr EC50 Daphnia magna: >10 mg/L

acetone - 48 Hr EC50 Daphnia magna: 12600 mg/L

Persistence / Degradability: No information available Bioaccumulation / Accumulation: No information available Mobility in Environment: No information available

Section 13: Disposal Considerations

Disposal: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the

following potential waste codes: D001, F003. (See 40 CFR Part 261.20 – 261.33)

Aerosol containers should be emptied and depressurized before disposal. Empty containers may be

recycled. Any liquid product should be managed as a hazardous waste.

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

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

<u>Toxic Substances Control Act (TSCA)</u>:

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Acetone (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.

<u>Superfund Amendments Reauthorization Act (SARA) Title III:</u>

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories: Fire Hazard Yes

Reactive Hazard No Release of Pressure Yes Acute Health Hazard Yes Chronic Health Hazard No

Section 313 Toxic Chemicals: 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:

None

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Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of

California to cause cancer, birth defects or other reproductive harm: toluene (< 0.005%)

State Right to Know:

New Jersey: 142-82-5, 67-64-1, 124-38-9 Pennsylvania: 142-82-5, 67-64-1, 124-38-9 Massachusetts: 142-82-5, 67-64-1, 124-38-9 Rhode Island: 142-82-5, 67-64-1, 124-38-9

Additional Regulatory Information: In states with consumer products VOC regulations, this product is compliant

as a Brake Cleaner.

Section 16: Other Information

NFPA: Health: 2 Flammability: 3 Reactivity: 0

HMIS: Health: 2 Flammability: 3 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick

CRC #: 920A/B Revision Date: 04/21/2009

Changes since last revision: Part number removed

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.

CAS: **Chemical Abstract Service** NA: Not Applicable Parts per Million ND: Not Determined ppm: TCC: Tag Closed Cup NE: Not Established Pensky-Martens Closed Cup grams per Liter PMCC: g/L: PPE: Personal Protection Equipment pounds per gallon lbs./gal:

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