

## SAFETY DATA SHEET

## 1. Identification

Brakleen® Brake Parts Cleaner - 538 g	
No. 75089 (Item# 1006333)	
Brake parts cleaner	
None known.	
Distributor information	
CRC Canada Co.	
83 Galaxy Blvd	
Unit 35 - 37	
Toronto, ON M9W 5X6	
Canada	
416-847-7750	
800-521-3168	
800-424-9300 (Canada)	
crc-canada.ca	
Gases under pressure	Compressed gas
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Sensitization, skin	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B
Specific target organ toxicity, single exposure	Category 3 narcotic effects
Hazardous to the aquatic environment, long-term hazard	Category 2
Danger	
	neated. Causes skin irritation. May cause an allergic e drowsiness or dizziness. May cause cancer. Toxic
and understood. Avoid breathing mist or vapor	handle until all safety precautions have been read c. Use only outdoors or in a well-ventilated area. I work clothing should not be allowed out of the clothing/eye protection/face protection. Avoid
	No. 75089 (Item# 1006333) Brake parts cleaner None known. <b>Distributor information</b> CRC Canada Co. 83 Galaxy Blvd Unit 35 - 37 Toronto, ON M9W 5X6 Canada 416-847-7750 800-521-3168 800-424-9300 (Canada) crc-canada.ca Gases under pressure Skin corrosion/irritation Serious eye damage/eye irritation Sensitization, skin Carcinogenicity Reproductive toxicity Specific target organ toxicity, single exposure Hazardous to the aquatic environment, long-term hazard identification in the exposure in t

Response	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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 advice/attention. IF exposed or concerned: Get medical advice/attention. Collect spillage.
Storage	Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Other hazards	None known.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
tetrachloroethylene	perchloroethylene	127-18-4	80 - 100
carbon dioxide		124-38-9	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog Foam Dry chemical powder, Dry chemical, CO2, or water spray

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Dry chemical, CO2, or water spray.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

## 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of
protective equipment and	low areas. Many gases are heavier than air and will spread along ground and collect in low or
emergency procedures	confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing
0 11	during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained
	breathing equipment. Do not touch damaged containers or spilled material unless wearing
	appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities
	should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Contents under pressure. Do not expose to heat or store at temperatures above 120 °F/49 °C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place.

## 8. Exposure controls/personal protection

Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. Alberta OELs (Occupatio	onal Health & Safety Code, Scl	nedule 1, Table 2)
Components	Туре	Value
	STEL	54000 mg/m3
	STEL	54000 mg/m3 30000 ppm
	STEL	-
		30000 ppm
carbon dioxide (CAS 124-38-9) tetrachloroethylene (CAS 127-18-4)		30000 ppm 9000 mg/m3
124-38-9) tetrachloroethylene (CAS	TWA	30000 ppm 9000 mg/m3 5000 ppm
124-38-9) tetrachloroethylene (CAS	TWA	30000 ppm 9000 mg/m3 5000 ppm 678 mg/m3

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	15000 ppm	
	TWA	5000 ppm	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety	And Health Act)
Components	Туре	Value
arbon dioxide (CAS 24-38-9)	STEL	30000 ppm
	TWA	5000 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. New Brunswick OELs: T Publication (New Brunswick Reg	. ,	Based on the 1991 and 1997 ACGIH TLVs and BEIs
Components	Туре	Value
carbon dioxide (CAS	STEL	54000 mg/m3

124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
tetrachloroethylene (CAS 127-18-4)	STEL	685 mg/m3
,		100 ppm
	TWA	170 mg/m3
		25 ppm

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
	TWA	25 ppm	

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
tetrachloroethylene (CAS 127-18-4)	STEL	685 mg/m3	
		100 ppm	
	TWA	170 mg/m3	
		25 ppm	
Canada. Saskatchewan OELs (Oo	cupational Health and Safety R	egulations, 1996, Table 21)	
Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	15 minute	30000 ppm	
	8 hour	5000 ppm	

Material name: Brakleen® Brake Parts Cleaner - 538 g

Canada. Saskatchewan O Components	ELs (Occupational He Type		gulations, 1996, Val	•
tetrachloroethylene (CAS 127-18-4)	15 m	ninute	100	ppm
	8 ho	ur	25	opm
Biological limit values				
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*
	3 ppm	Tetrachloroethy lene	End-exhaled air	*
* - For sampling details, ple	ase see the source doo	ument.		
controls	or other engineerin exposure limits hav	g controls to maintai /e not been establish	n airborne levels ned, maintain airl	ess enclosures, local exhaust ventilation, below recommended exposure limits. If borne levels to an acceptable level. Eye ble when handling this product.
Individual protection measure	es, such as personal p	rotective equipmer	nt	
Eye/face protection	Wear safety glasse	es with side shields (	or goggles).	
Skin protection				
Hand protection	Wear protective glo	oves such as: Nitrile.	Polyvinyl alcoho	I (PVA).
Other	Wear appropriate o	hemical resistant clo	othing.	
Respiratory protection	NIOSH-approved of breathing apparatu	artridge respirator w	ith an organic va and for emerge	ceeds the applicable exposure limits, use por cartridge. Use a self-contained ncies. Air monitoring is needed to
Thermal hazards	Wear appropriate t	hermal protective clo	othing, when nec	essary.
General hygiene considerations	after handling the r		ating, drinking, a	nal hygiene measures, such as washing and/or smoking. Routinely wash work nts.

## 9. Physical and chemical properties

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Appearance		
Physical state	Liquid.	
Form	Aerosol.	
Color	Colorless.	
Odor	Irritating.	
Odor threshold	50 ppm	
рН	Not available.	
Melting point/freezing point	-8.1 °F (-22.3 °C) estimated	
Initial boiling point and boiling range	250.3 °F (121.3 °C) estimated	
Flash point	None.	
Evaporation rate	Very fast.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	olosive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Vapor pressure	1354.7 hPa estimated	
Vapor density	5.76 (air = 1)	
Relative density	1.62	

Solubility(ies)	
Solubility (water)	0.02 % (77 °F (25 °C))
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Partition coefficient (oil/water)	2.88
Percent volatile	97.7 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides. Halogenated materials. Carbonyl halides.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting.		
Skin contact	Causes skin irritation. May cause an allergic skin reaction.		
Eye contact	Causes eye irritation.		
Ingestion	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.		
Symptoms related to the physical, chemical and toxicological characteristics	individuals may experience ey	zziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed e tearing, redness, and discomfort. Skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effe	ects		
Acute toxicity	Narcotic effects. May cause a	n allergic skin reaction.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitizatior	ı		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin rea	iction.	
Germ cell mutagenicity	Il mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer.		
ACGIH Carcinogens			
tetrachloroethylene (CAS 127-18-4)		A3 Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Manitoba OELs: ca			
tetrachloroethylene (CAS 127-18-4)		Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Quebec OELs: Carcinogen category		<b>- .</b>	
tetrachloroethylene (CAS 127-18-4)		Detected carcinogenic effect in animals.	
IARC Monographs. Overall Evaluation of Carcinogenicity tetrachloroethylene (CAS 127-18-4)		24 Drobably carainagania ta humana	
tetrachioroethylehe (CAS	121-10-4)	2A Probably carcinogenic to humans.	

US. National Toxicology Pro	gram (NTP) Report on Carcinogens	
tetrachloroethylene (CAS		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chronic effects.	
12. Ecological information		
Ecotoxicity	Toxic to aquatic life with long lasting effects.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Partition coefficient n-octand tetrachloroethylene	ol / water (log Kow) 3.4	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
13. Disposal consideration	IS	
Disposal instructions	Contents under pressure. Empty container can be recycled. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	
14. Transport information		
14. Transport mormation		
TDG		
-	UN1950 AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III	
TDG UN number UN proper shipping name		
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III	
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2	
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1	
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user IATA	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1 - Read safety instructions, SDS and emergency procedures before handling.	
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user IATA UN number UN proper shipping name Transport hazard class(es) Class	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1 - Read safety instructions, SDS and emergency procedures before handling. UN1950 Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III 2.2	
TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user IATA UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1 - Read safety instructions, SDS and emergency procedures before handling. UN1950 Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III	
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TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user IATA UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group ERG Code Special precautions for user Other information Passenger and cargo aircraft Cargo aircraft only IMDG UN number	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1 - Read safety instructions, SDS and emergency procedures before handling. UN1950 Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III 2.2 6.1 - 2P Read safety instructions, SDS and emergency procedures before handling. Allowed with restrictions. Allowed with restrictions. UN1950	
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TDG UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group Special precautions for user IATA UN number UN proper shipping name Transport hazard class(es) Class Subsidiary risk Packing group ERG Code Special precautions for user Other information Passenger and cargo aircraft Cargo aircraft only IMDG UN number UN proper shipping name Transport hazard class(es)	AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III 2.2 6.1 - Read safety instructions, SDS and emergency procedures before handling. UN1950 Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III 2.2 6.1 - 2P Read safety instructions, SDS and emergency procedures before handling. Allowed with restrictions. Allowed with restrictions. UN1950 AEROSOLS	

#### **Environmental hazards**

Marine pollutantYes, but exempt from the regulations.Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

#### IATA; IMDG; TDG

EmS



#### 15. Regulatory information

#### **Canadian regulations** Canada. Excluded VOCs. Guidelines for Volatile Organic Compounds in Consumer Products. CEPA 1999. Environment Canada, as amended tetrachloroethylene (CAS 127-18-4) **Controlled Drugs and Substances Act** Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. **Greenhouse Gases** carbon dioxide (CAS 124-38-9) Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) tetrachloroethylene (CAS 127-18-4) **Precursor Control Regulations** Not regulated. International regulations **Stockholm Convention** Not applicable. **Rotterdam Convention** Not applicable. Kyoto protocol carbon dioxide (CAS 124-38-9) Listed. **Montreal Protocol** Not applicable. **Basel Convention** Not applicable. International Inventories Country(s) or region Inventory name On inventory (yes/no)\* Australia Australian Inventory of Industrial Chemicals (AICIS) No Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes Europe European Inventory of Existing Commercial Chemical No Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) No Yes Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory No

Country(s) or region	Inventory name On inventory (	yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vee" indicates that all some		

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

Issue date	08-28-2019
Revision date	06-30-2022
Version #	02
Further information	CRC # 491G/1002481
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Revision information	Product and Company Identification: Product Codes Composition / Information on Ingredients: Component Summary Exposure controls/personal protection: Hand protection Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Ecological Information: Ecotoxicity Ecological information: Bioaccumulative potential Disposal considerations: Disposal instructions GHS: Classification