# CRC

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Brakleen® Brake Parts Cleaner

Other means of identification

**Product code** No. 75090 (Item# 1006336)

Recommended use Brake parts cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company nameCRC Canada Co.Address2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

Canada

**Telephone** 

**General Information** 905-670-2291

**24-Hour Emergency** 800-424-9300 (Canada) **(CHEMTREC)** 703-527-3887 (International)

Website www.crc-canada.ca

E-mail Support.CA@crcindustries.com

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B
Sensitization, skin Category 1B
Carcinogenicity (inhalation) Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements



Signal word Danger

**Hazard statement** Causes skin irritation. May cause an allergic skin reaction. Causes eye irritation. May cause

drowsiness or dizziness. May cause cancer by inhalation. Toxic to aquatic life with long lasting

effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

Material name: Brakleen® Brake Parts Cleaner

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 Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

#### 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.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
tetrachloroethylene	perchloroethylene	127-18-4	80 - 100

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

Indication of immediate medical attention and special

treatment needed

**General information** 

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.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

Unsuitable extinguishing media

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Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

equipment/instructions

Specific methods
General fire hazards

Use fire-extinguishing media appropriate for surrounding materials.

Do not use water jet as an extinguisher, as this will spread the fire.

Do not use water jet as an extinguisher, as this will spread the life.

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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# Methods and materials for containment and cleaning up

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

#### **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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Value

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Components

US. ACGIH	Threshold	l Limit Values
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Components	rype	value	
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
	TWA	25 ppm	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	
tetrachloroethylene (CAS	QTFI	678 mg/m3	

	• •	
tetrachloroethylene (CAS 127-18-4)	STEL	678 mg/m3
127 10 1)	TWA	100 ppm 170 mg/m3
		25 nnm

Tyna

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

Components	Type	Value
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
,	TWA	25 ppm

# Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	туре	value
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
- ,	TWA	25 ppm

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

Components	Туре	Value
tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm
- ,	TWA	25 ppm

# Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	туре	value	
tetrachloroethylene (CAS 127-18-4)	STEL	685 mg/m3	
		100 ppm	
	TWA	170 mg/m3	

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25 ppm

#### **Biological limit values**

ACGIH Biolog	gical Exposure	Indices
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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	*

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves such as: Polyvinyl alcohol (PVA). Ethyl vinyl alcohol laminate (EVAL).

Silver Shield® Viton®.

Other Wear appropriate chemical resistant clothing. Wear suitable protective clothing.

Respiratory protection If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

#### **Appearance**

Physical state Liquid.
Form Liquid.
Color Colorless.
Odor Irritating.
Odor threshold 50 ppm
pH Not available.

Melting point/freezing point -8.1 °F (-22.3 °C) estimated Initial boiling point and boiling 250.3 °F (121.3 °C) estimated

range

Flash point None (Tag Closed Cup)

Evaporation rate Very fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper Not a

Not available.

(%)

Vapor pressure 13 mm Hg (68 °F (20 °C))

Vapor density 5.76 (air = 1)

Relative density 1.62

Solubility(ies)

**Solubility (water)** 0.02 % (77 °F (25 °C))

SDS CANADA

Partition coefficient (n-octanol/water)

2.88

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

100 % estimated Percent volatile

#### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

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

Hazardous decomposition

products

Strong oxidizing agents. Strong acids. Strong bases. Oxygen. Peroxides. Powdered metal.

Carbon oxides. Hydrogen chloride. Chlorine. Phosgene.

# 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 Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics 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.

#### Information on toxicological effects

**Acute toxicity** Narcotic effects. May cause an allergic skin reaction.

Components Species Test Results

tetrachloroethylene (CAS 127-18-4)

**Acute Dermal** 

LD50 Rabbit > 3228 mg/kg

Oral

Rat 2629 mg/kg LD50

\* Estimates for product may be based on additional component data not shown.

Causes skin irritation. Skin corrosion/irritation Causes eye irritation. Serious eye damage/eye

irritation

Respiratory sensitization Not a respiratory sensitizer.

May cause an allergic skin reaction. Skin sensitization

Germ cell 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: carcinogenicity

tetrachloroethylene (CAS 127-18-4) Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

tetrachloroethylene (CAS 127-18-4) Detected carcinogenic effect in animals.

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#### IARC Monographs. Overall Evaluation of Carcinogenicity

tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

tetrachloroethylene (CAS 127-18-4)

Reasonably Anticipated to be a Human Carcinogen.

**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.

Components Species Test Results

tetrachloroethylene (CAS 127-18-4)

Aquatic

Fish LC50 Rainbow trout,donaldson trout 4.73 - 5.27 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

(Oncorhynchus mykiss)

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Brakleen® Brake Parts Cleaner 2.88 tetrachloroethylene 2.88

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 considerations

Disposal of waste from residues / unused products

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

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

TDG

UN number UN1897

UN proper shipping name TETRACHLOROETHYLENE, LIMITED QUANTITY

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Packing group III
Environmental hazards No.

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

IATA

UN number UN1897

UN proper shipping name Tetrachloroethylene

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Packing group |||

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Environmental hazards** No. **ERG Code** 6L

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

Other information

Passenger and cargo Allo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN number UN1897

UN proper shipping name TETRACHLOROETHYLENE, LIMITED QUANTITY

Not established.

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk - Packing group |||

**Environmental hazards** 

Marine pollutant No. EmS F-A, S-A

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

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

45.5

## 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** 

Not listed.

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** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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 Substances (EINECS)	Yes

Country(s) or region Inventory name On inventory (yes/no)\* Europe European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances **Philippines** Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*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

Disclaimer

**Issue date** 07-22-2016

Version # 01

Further information CRC # 491G/1002481

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 Canada Co.'s knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co.

Material name: Brakleen® Brake Parts Cleaner SDS CANADA