# CR®

# SAFETY DATA SHEET

# 1. Identification

Product identifier Lectra-Clean® - 538 g

Other means of identification

Product Code No. 72018 (Item# 1006116)

Recommended use Energized electrical cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company nameCRC Canada Co.Address83 Galaxy Blvd

Unit 35 - 37

Toronto, ON M9W 5X6

Canada

Telephone

**General Information** 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC)
Website

www.crc-canada.ca

E-mail Support.CA@crcindustries.com

#### 2. Hazard identification

Physical hazards Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

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

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

Category 2

#### Label elements



Signal word Danger

**Hazard statement** Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic

skin reaction. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. 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. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

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Response IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep

comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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.

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 fluoride, 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
carbon dioxide		124-38-9	1 - 5
decafluoropentane		138495-42-8	0.1 - 1

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** In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.

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

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Material name: Lectra-Clean® - 538 q

Fire fighting 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.

During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot

hydrogen chloride, and possibly phosgene.

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

surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride,

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

In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Use standard firefighting procedures and consider the hazards of other involved materials. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

SDS CANADA

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing 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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop leak if you can do so without risk. 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. 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. 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. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

US. ACGIH	Threshold	Limit	Values
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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 (Occupation	onal Health & Safety Code. Sc	nedule 1. Table 2)	

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	678 mg/m3	
·		100 ppm	

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Canada. Alberta OELs (Occupation Components	onal Health & Safety Code, Sche Type	edule 1, Table 2) Value
	TWA	170 mg/m3
		25 ppm
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		for Chemical Substances, Occupational Health and
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
etrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
Canada. Manitoba OELs (Reg. 21	-	
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. Ontario OELs. (Control o		
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
etrachloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm
	<del>-</del>	g 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 (Od Components	ccupational Health and Safety Re Type	egulations, 1996, Table 21) Value
carbon dioxide (CAS 124-38-9)	15 minute	30000 ppm
	8 hour	5000 ppm
tetrachloroethylene (CAS 127-18-4)	15 minute	100 ppm
	0 have	OE 10 10 10

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8 hour

25 ppm

#### **Biological limit values**

#### **ACGIH Biological Exposure 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	*

<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.

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

When using do not smoke. 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 Aerosol.
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.

Evaporation rate Very fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)

Vapor pressure 1333.3 hPa estimated

Vapor density 5.76 (air = 1)

Relative density 1.61 estimated

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

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**Decomposition temperature** Not available. Not available. Viscosity

Other information

97.7 % estimated Percent volatile

# 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 fluoride, hydrogen chloride, and possibly

phosgene. Contact with incompatible materials.

Strong oxidizing agents. Metals. Powdered metal. Amines. Strong bases. Incompatible materials

Hazardous decomposition

Hydrogen fluoride. Hydrogen chloride. Trace amounts of chlorine and phosgene.

products

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Causes eye irritation. Eye contact

Expected to be a low ingestion hazard. Ingestion

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

Not available. Acute toxicity

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

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

US. National Toxicology Program (NTP) Report on Carcinogens

tetrachloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

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# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components		Species	Test Results	
tetrachloroethylene (C	CAS 127-18-4)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	6.1 - 9 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours	

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

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

tetrachloroethylene 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 considerations

**Disposal instructions** Contents under pressure. Do not puncture, incinerate or crush. 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.

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

**TDG** 

**UN** number UN1950

**UN proper shipping name** Transport hazard class(es) AEROSOLS, non-flammable, containing substances in Class 6.1, packing group III

Class 2.2

Subsidiary risk 6.1(PGIII) Packing group Not applicable.

**Environmental hazards** Exempt from the regulations.

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

Special provisions 80

IATA

UN1950 **UN number** 

**UN proper shipping name** Transport hazard class(es) Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III

2.2 Class Subsidiary risk 6.1

Exempt from the regulations. **Environmental hazards** 

Packing group Not applicable.

**ERG Code** 

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number UN1950 UN proper shipping name **AEROSOLS** 

Transport hazard class(es)

Class 2.2

Material name: Lectra-Clean® - 538 q No. 72018 (Item# 1006116) Version #: 01 Issue date: 07-26-2019 Subsidiary risk 6.1

Packing group Not applicable.

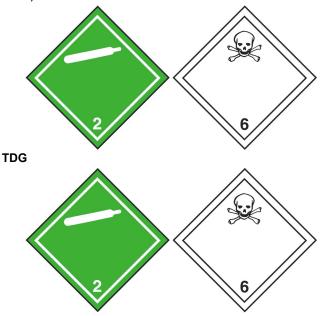
**Environmental hazards** 

**Marine pollutant** Exempt from the regulations.

EmS Not available.

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

# IATA; IMDG



# 15. Regulatory information

#### Canadian regulations

Canada. Excluded VOCs. Guidelines for Volatile Organic Compounds in Consumer Products. CEPA 1999. Environment Canada, as amended

decafluoropentane (CAS 138495-42-8)

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)

decafluoropentane (CAS 138495-42-8)

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. decafluoropentane (CAS 138495-42-8) Listed.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

Material name: Lectra-Clean® - 538 g sds canada

#### **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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

#### 16. Other information

07-26-2019 Issue date

Version #

**Further information** CRC # 863A/1002837

**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'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..

Product and Company Identification: Product and Company Identification **Revision information** 

Hazard identification: Prevention Hazard identification: Response

Hazard identification: GHS Signal Words Hazard identification: Supplemental information

Composition / Information on Ingredients: Component Summary

Handling and storage: Precautions for safe handling Exposure controls/personal protection: Hand protection Physical & Chemical Properties: Multiple Properties

Toxicological information: Acute toxicity Ecological Information: Ecotoxicity

Transport Information: Material Transportation Information

GHS: Classification

Material name: Lectra-Clean® - 538 q SDS CANADA

<sup>\*</sup>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).