



# MATERIAL SAFETY DATA SHEET

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## Section 1: Product & Company Identification

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**Product Name:** Lectra Clean® Heavy Duty Electrical Parts Degreaser (bulk)

**Product Number (s):** 02020, 02021, 02023

**Product Use:** Energized Electrical Cleaner

### Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://www.crcindustries.com)  
1-215-674-4300 (General)  
(800) 521-3168 (Technical)  
(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.  
2-1246 Lorimar Drive  
Mississauga, Ontario L5S 1R2  
[www.crc-canada.ca](http://www.crc-canada.ca)  
1-905-670-2291

In Mexico:

CRC Industries Mexico  
Av. Benito Juárez 4055 G  
Colonia Orquídea  
San Luís Potosí, SLP CP 78394  
[www.crc-mexico.com](http://www.crc-mexico.com)  
52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

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## Section 2: Hazards Identification

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### Emergency Overview

**DANGER:** Vapor Harmful.

Appearance & Odor: Colorless liquid, irritating odor at high concentrations

### Potential Health Effects:

#### ACUTE EFFECTS:

**EYE:** May cause slight temporary eye irritation. Vapors may irritate the eyes at concentrations of 100 ppm.

**SKIN:** Short single exposure may cause skin irritation. Prolonged exposure may cause severe skin irritation, even a burn. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**INHALATION:** Dizziness may occur at concentrations of 200 ppm. Progressively higher levels may also cause nasal irritation, nausea, incoordination, and drunkenness. Very high levels or prolonged exposure could lead to unconsciousness and death.

**INGESTION:** Single dose oral toxicity is considered to be extremely low. Swallowing large amounts may cause injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in injury to other body systems.

**CHRONIC EFFECTS:** Repeated contact with skin may cause drying or flaking of skin. Excessive or long term exposure to vapors may increase sensitivity to epinephrine and increase myocardial irritability.

**TARGET ORGANS:** Central nervous system. Possibly liver and kidney.

Medical Conditions Aggravated by Exposure: None known.

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

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## Section 3: Composition/Information on Ingredients

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COMPONENT	CAS NUMBER	% by Wt.
Tetrachloroethylene (PERC)	127-18-4	> 99
Decafluoropentane (HFC-43-10mee)	138495-42-8	< 1

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## Section 4: First Aid Measures

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**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. Call a physician immediately

**Note to Physicians:** Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. If burn is present, treat as any thermal burn, after decontamination. Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote.

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## Section 5: Fire-Fighting Measures

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**Flammable Properties:** As defined by OSHA, this product is a nonflammable liquid.

Flash Point: None (TCC)  
Autoignition Temperature: None

Upper Explosive Limit: None  
Lower Explosive Limit: None

### **Fire and Explosion Data:**

**Suitable Extinguishing Media:** This material does not burn. Use extinguishing agent suitable for surrounding fire.

**Products of Combustion:** Hydrogen chloride, trace amounts of phosgene and chlorine

**Explosion Hazards:** Containers, when exposed to heat from fire, may build pressure and rupture.

**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.

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## Section 6: Accidental Release Measures

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**Personal Precautions:** Use personal protection recommended in Section 8. Do not breathe vapors.

**Environmental Precautions:** Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

**Methods for Containment & Clean-up:** 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

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respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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## Section 7: Handling and Storage

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**Handling Procedures:** Vapors of this product are heavier than air and will collect in low areas. Make sure ventilation removes vapors from low areas. Keep containers closed when not in use. Do not eat, drink or smoke while using this product. Do not cut, drill or weld on or near empty containers. For product use instructions, please see the product label.

**Storage Procedures:** Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage.

**Aerosol Storage Level:** NA

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## Section 8: Exposure Controls/Personal Protection

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### Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Tetrachloroethylene	100	N.E.	25	100	N.E.		ppm
Decafluoropentane	N.E.	N.E.	N.E.	N.E.	200	mfr	ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

### Controls and Protection:

**Engineering Controls:** 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.

**Respiratory Protection:** 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. Air monitoring is needed to determine actual employee exposure levels. 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 PVA, Teflon or Viton. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

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## Section 9: Physical and Chemical Properties

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**Physical State:** liquid

**Color:** colorless

**Odor:** irritating odor

**Odor Threshold:** 50 ppm

**Specific Gravity:** 1.619

**Initial Boiling Point:** 250°F / 121°C

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Freezing Point: ND  
Vapor Pressure: 13 mmHg @ 68°F / 20°C  
Vapor Density: 5.76 (air = 1)  
Evaporation Rate: very fast  
Solubility: 0.015 g/ 100 g @ 77°F / 25°C in water  
Coefficient of water/oil distribution (log P<sub>ow</sub>): 2.88  
pH: NA  
Volatile Organic Compounds (Federal): wt %: 0 g/L: 0 lbs./gal: 0

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Avoid direct sunlight or ultraviolet sources. Avoid open flames, welding arcs, and other high temperature sources which induce thermal decomposition.

Incompatible Materials: Avoid contact with metals such as: aluminum powders, magnesium powders, potassium, sodium, and zinc powder. Avoid unintended contact with amines. Avoid contact with strong bases and strong oxidizers.

Hazardous Decomposition Products: Hydrogen chloride, trace amounts of phosgene and chlorine

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 Toxicity:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Tetrachloroethylene	2629 mg/kg	> 10 g/kg	5200 mg/kg/4H
Decafluoropentane	> 5000 mg/kg	> 5000 mg/kg	11,100 ppm/4H

### Chronic Toxicity:

Component	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen	Irritant	Sensitizer
Tetrachloroethylene	No	Group 2A	Reasonably Anticipated to be a Carcinogen	E (mild) / S (severe)	No
Decafluoropentane	No	No	No	E (mild)	No

E – Eye      S – Skin      R - Respiratory

Reproductive Toxicity: No information available.

Teratogenicity: No information available.

Mutagenicity: Tetrachloroethylene: in vitro studies were negative  
animal studies were negative

Synergistic Effects: No information available.

## Section 12: Ecological Information

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

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Ecotoxicity: Tetrachloroethylene -- 96 Hr LC50 Rainbow Trout: 5.28 mg/L (static)  
96 Hr LC50 Fathead minnow: 13.4 mg/L (flow-through)

Persistence / Degradability: Biodegradation under aerobic conditions is below detectable limits.  
Biodegradation may occur under anaerobic conditions. Biodegradation rate may increase in soil and/or water with acclimation.

Bioaccumulation / Accumulation: Bioconcentration potential is low (BCF less than 100).

Mobility in Environment: Potential for mobility in soil is medium.

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## Section 13: Disposal Considerations

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**Waste Classification:** This product is a RCRA hazardous waste for toxicity with the following potential waste codes: U210, F001, F002, D039. (See 40 CFR Part 261.20 – 261.33)  
Empty containers may be recycled. If this waste is mixed with other wastes, the mixture will be a hazardous waste.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

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## Section 14: Transport Information

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US DOT (ground):	<b>02020</b>	Consumer Commodity, ORM-D
	<b>02021</b>	Tetrachloroethylene, UN1897, 6.1, PGIII
	<b>02023</b>	Tetrachloroethylene, UN1897, 6.1, PGIII, RQ
ICAO/IATA (air):	<b>02020</b>	Tetrachloroethylene, UN1897, 6.1, PGIII, Limited Quantity
	<b>02021</b>	Tetrachloroethylene, UN1897, 6.1, PGIII
	<b>02023</b>	Tetrachloroethylene, UN1897, 6.1, PGIII
IMO/IMDG (water):	<b>02020</b>	Tetrachloroethylene, UN1897, 6.1, PGIII, Limited Quantity
	<b>02021</b>	Tetrachloroethylene, UN1897, 6.1, PGIII
	<b>02023</b>	Tetrachloroethylene, UN1897, 6.1, PGIII

Special Provisions: Marine Pollutant

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## Section 15: Regulatory Information

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### U.S. Federal Regulations:

#### Toxic Substances Control Act (TSCA):

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: Tetrachloroethylene (100 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.**

#### Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

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Section 311/312 Hazard Categories:	Fire Hazard	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

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:  
Tetrachloroethylene (99.5%)

**Clean Air Act:**

Section 112 Hazardous Air Pollutants (HAPs): tetrachloroethylene

**Occupational Safety and Health Administration:**

This product is regulated by the Hazard Communications Standard.

**U.S. 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: Tetrachloroethylene

**Consumer Products VOC Regulations:**

For users in California, Connecticut, Delaware, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Virginia, this product is an Energized Electrical Cleaner. Energized equipment use only. Not to be used for motorized vehicle maintenance or their parts.

**State Right to Know:**

New Jersey: 127-18-4  
Pennsylvania: 127-18-4  
Massachusetts: 127-18-4  
Rhode Island : 127-18-4

**Canadian Regulations:****Controlled Products Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: D1B, D2A, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

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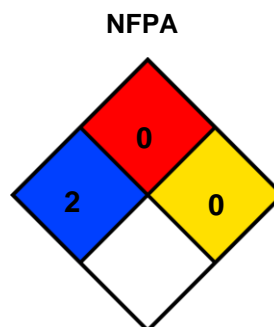
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## Section 16: Other Information

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HMIS® (II)	
Health:	2
Flammability:	0
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 863A  
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Changes since last revision: Formula change

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. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Service  
CFR: Code of Federal Regulations  
DOT: Department of Transportation  
DSL: Domestic Substance List  
g/L: grams per Liter  
HMIS: Hazardous Materials Identification System  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
IMO: International Maritime Organization  
lbs./gal: pounds per gallon  
LC: Lethal Concentration  
LD: Lethal Dose

NA: Not Applicable  
ND: Not Determined  
NIOSH: National Institute of Occupational Safety & Health  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PMCC: Pensky-Martens Closed Cup  
PPE: Personal Protection Equipment  
ppm: Parts per Million  
RoHS: Restriction of Hazardous Substances  
STEL: Short Term Exposure Limit  
TCC: Tag Closed Cup  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Information System