

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Lectra Clean® Heavy Duty Energized Elect	rical Parts Degreaser - 1 gal		
Other means of identification				
Product Code	No. 02020 (Item# 1003181)			
Recommended use	Energized electrical cleaner			
Recommended restrictions	None known.			
/anufacturer/Importer/Supplier/	Distributor information			
Anufactured or sold by:				
Company name	CRC Industries, Inc.			
Address	885 Louis Dr.			
	Warminster, PA 18974 US			
Telephone				
General Information	215-674-4300			
Technical Assistance	800-521-3168			
Customer Service	800-272-4620			
24-Hour Emergency	800-424-9300 (US)			
(CHEMTREC) Website	www.crcindustries.com			
2. Hazard(s) identification				
Physical hazards	Not classified.			
lealth 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	Category 2		
	Hazardous to the aquatic environment, long-term hazard	Category 2		
OSHA defined hazards	Not classified.			
_abel elements	<b>^ ^</b>			
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.			
Precautionary statement				
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapors. Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.			

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.
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.
Hazard(s) not otherwise classified (HNOC)	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	90 - 100
1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroe thoxy) ethane	HFE-347PCF2	406-78-0	0.1 - 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 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. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	May cause drowsiness or 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. Carbon dioxide (CO2).
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 fluoride, hydrogen chloride, and possibly phosgene.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions General fire hazards	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,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear
protective equipment and	appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do
emergency procedures	not touch damaged containers or spilled material unless wearing appropriate protective clothing.
0 ) 1	Ensure adequate ventilation. 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	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	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. 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. Use only outdoors or in a well-ventilated area. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-2 (29 C Components	CFR 1910.1000	)) Type		v	alue	
tetrachloroethylene (CAS 127-18-4)		Ceiling		2	00 ppm	
,		TWA		1	00 ppm	
US. ACGIH Threshold Lir	nit Values					
Components		Туре		V	alue	
tetrachloroethylene (CAS 127-18-4)		STEL		1	00 ppm	
		TWA		2	5 ppm	
U.S EPA						
Components		Туре		V	alue	
1,1,2,2-tetrafluoro-1-(2,2,2- rifluoroethoxy) ethane (CA 406-78-0)		Ceiling I	₋imit Value	1:	50 ppm	
Manufacturer OEL						
Components		Туре		v	alue	
1,1,2,2-tetrafluoro-1-(2,2,2- rifluoroethoxy) ethane (CA 406-78-0)		TWA		5	0 ppm	
logical limit values						
ACGIH Biological Exposu						
Components	Value	0	Determinant	Specimen	Sampling Time	
tetrachloroethylene (CAS 127-18-4)	0.5 mg/l		etrachloroethy	Blood	*	
	3 ppm		etrachloroethy	End-exhaled air	*	
* - For sampling details, ple	ease see the so	ource docum	ent.			
osure guidelines						
US - Minnesota Haz Subs	: Skin designa	ation applies	5			

### Bio

### Ex

#### Minnesota Haz Subs: Skin designation applies US

tetrachloroethylene (CAS 127-18-4)

Skin designation applies.

Appropriate engineering controls	Good general ventilation 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. Provide eyewash station and safety shower.
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: Nitrile. Polyvinyl alcohol (PVA).
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	Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

5. I hysical and chemical	properties
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Irritating.
Odor threshold	27 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 (Setaflash)
Evaporation rate	Very fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	24.7 hPa estimated
Vapor density	> 1 (Air = 1)
Relative density	1.62
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Percent volatile	100 % 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. Contact with incompatible materials. 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.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	Halogenated materials. Hydrogen fluoride. Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides. Carbonyl halides.

# 11. Toxicological information

## Information on likely routes of exposure

information on likely routes of e	xposure		
Inhalation	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.		
Skin contact	Causes skin irritation. May cause an allergic skin reaction.		
Eye contact	Causes eye irritation.		
Ingestion	Based on available data, the classification criteria are not met.		
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness or 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 effe	ects		
Acute toxicity	Not classified.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
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.		
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
tetrachloroethylene (CAS	,	nic to humans.	
Not listed.	d Substances (29 CFR 1910.1001-1053)		
	gram (NTP) Report on Carcinogens		
tetrachloroethylene (CAS		d 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 or dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		
12. Ecological information	1		
Ecotoxicity	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.		
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data available.		
<b>Partition coefficient n-octan</b> 1,1,2,2-tetrafluoro-1-(2,2,2-trif tetrachloroethylene			
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozone de potential, endocrine disruption, global warming potenti		

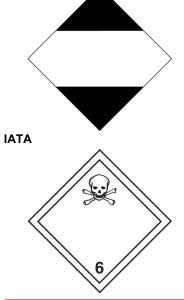
# 13. Disposal considerations

Disposal instructions	This material and its container must be disposed of as hazardous waste. Dispose of this material and its container to hazardous or special waste collection point. 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.			
Hazardous waste code	D039: Waste Tetrachloroethylene F001: Waste Halogenated Solvent - Spent Halogenated Solvent Used in Degreasing F002: Waste Halogenated Solvent - Spent Halogenated Solvent			
US RCRA Hazardous Waste U List: Reference				
tetrachloroethylene (CAS	127-18-4) U210			
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.	i		

# 14. Transport information

DOT	
UN number	UN1897
UN proper shipping name	Tetrachloroethylene mixture, Limited Quantity
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes, but exempt from the regulations.
Special precautions for user	Not packaged for shipment by air. Limited quantity exemption does not apply when shipped by
	aircraft. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, N36, T4, TP1 153
Packaging exceptions Packaging non bulk	203
Packaging bulk	241
IATA	
UN number	UN1897
UN proper shipping name	Tetrachloroethylene mixture
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
ERG Code	6L
· · · ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	101/007
UN number	
UN proper shipping name	TETRACHLOROETHYLENE MIXTURE, Limited Quantity
Transport hazard class(es)	
Class Subsidiemunisk	6.1
Subsidiary risk Packing group	
Environmental hazards	
Marine pollutant	Yes, but exempt from the regulations.
EmS	F-A, S-A
-	Read safety instructions, SDS and emergency procedures before handling.
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# 15. Regulatory information

Standard, 29 CFR 1910.1 xport Notification (40 CFR 7	
• •	07. Output D)
1-(2,2,2-trifluoroethoxy) ethan	e 1.0 % One-Time Export Notification only.
release notification	
gulated Substances (29 CFF	R 1910.1001-1053)
•	4)
· · · · · · · · · · · · · · · · · · ·	
• •	•
· ,	100 LBS
	nt at or above its RQ require immediate notification to the National Emergency Planning Committee.
on 112 Hazardous Air Pollut	ants (HAPs) List
S 127-18-4)	
on 112(r) Accidental Release	e Prevention (40 CFR 68.130)
Not regulated.	
Not regulated.	
Reauthorization Act of 1986	(SARA)
Skin corrosion or irritation Serious eye damage or ey Respiratory or skin sensiti Carcinogenicity Specific target organ toxic	ye irritation
rdous substance	
Yes	
	gulated Substances (29 CFF substance List (40 CFR 302.4 e (CAS 127-18-4) substances: Reportable qua e (CAS 127-18-4) ing in the loss of any ingredie 424-8802) and to your Local I on 112 Hazardous Air Pollut (S 127-18-4) on 112(r) Accidental Release Not regulated. Not regulated. Not regulated. Skin corrosion or irritation Serious eye damage or ey Respiratory or skin sensiti Carcinogenicity Specific target organ toxic rdous substance

Chemical name	CAS	6 number	% by wt.
tetrachloroethylene	12	7-18-4	90 - 100
S state regulations			
	hemicals List. Safer Consume	er Products Reg	gulations (Cal. Code Regs, tit. 22, 69502.3, subd
(a))			
tetrachloroethylene (CAS	5 127-18-4) I Community Right-to-Know A	Act	
tetrachloroethylene (CAS			
US. Massachusetts RTK - S			
tetrachloroethylene (CAS	5 127-18-4)		
	nd Community Right-to-Know	Law	
tetrachloroethylene (CAS	5 127-18-4)		
US. Rhode Island RTK			
tetrachloroethylene (CAS	127-18-4)		
California Proposition 65		tua ala la ua atlas da u	an unkich is known to the Otote of Colifornia to
	use cancer. For more information		ne, which is known to the State of California to 65Warnings.ca.gov.
California Proposition 6	65 - CRT: Listed date/Carcino	nenic substanc	e
tetrachloroethylene (		Listed: April 1	
latile organic compounds (VC	, , , , , , , , , , , , , , , , , , ,	•	, ,
EPA	,		
VOC content (40 CFR	0 %		
51.100(s))	• / •		
Consumer products (40 CFR 59, Subpt. C)	Not regulated		
State			
Consumer products	Connecticut, Delaware, Distri Michigan, New Jersey, New	ct of Columbia, ⁄ork, Ohio, Penr y. It is not to be	ectrical Cleaner for the following states: California, Illinois, Indiana, Maine, Maryland, Massachusetts, nsylvania, Rhode Island and Virginia. It is for used for motorized vehicle maintenance or their 50 states.
VOC content (CA)	0 %		
VOC content (OTC)	0 %		
ernational Inventories			
Country(s) or region	Inventory name		On inventory (yes/n
Australia	Australian Inventory of Indust	rial Chemicals (	
Canada	Domestic Substances List (D		Ŷ
Canada	Non-Domestic Substances Li	•	
China	Inventory of Existing Chemica	al Substances in	China (IECSC)
Europe	European Inventory of Existir Substances (EINECS)	g Commercial C	Chemical
Europe	European List of Notified Che	mical Substanc	es (ELINCS)
Japan	Inventory of Existing and Nev	v Chemical Subs	stances (ENCS)
Korea	Existing Chemicals List (ECL	)	N
	New Zealand Inventory		
New Zealand			
New Zealand Philippines	Philippine Inventory of Chemi (PICCS)	cals and Chemi	cal Substances

\*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, including date of preparation or last revision

Issue date Prepared by Version # Further information	09-13-2022 Danica Fulmer 01 CRC # 1753502
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 Industries, Inc
Revision information	This document has undergone significant changes and should be reviewed in its entirety.