CRC.

SAFETY DATA SHEET

1. Identification

Product identifier Lectra-Motive® Electric Parts Cleaner

Other means of identification

Product code 05024

Recommended use Energized electrical cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information 215-674-4300 **Technical** 800-521-3168

Assistance

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin 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. Use with adequate ventilation. 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 or vapor. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection. Avoid release to the environment.

Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned:

Get medical 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 regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

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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	90 - 100

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.

Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical Skin contact

advice/attention. Wash contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause

Most important

symptoms/effects, acute and delayed

redness and pain.

Indication of immediate medical attention and special treatment needed

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

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 layage 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.

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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Containers should be cooled with water to prevent vapor pressure build up.

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. Keep out of low areas. 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.

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.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

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. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe mist or vapor. 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. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

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

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value	
Tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm	
,	TWA	100 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	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	*	

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - Minnesota Haz Subs: Skin designation applies

Tetrachloroethylene (CAS 127-18-4)

Skin designation applies.

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 must 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: Viton®. Polyvinyl alcohol (PVA). Ethyl vinyl alcohol laminate

(EVAL).

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

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.

SDS US

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 available.

(%)

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

Vapor density 5.76 (air = 1)

Relative density 1.62

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

Partition coefficient 2.9

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity (kinematic) Not available.

Percent volatile 100 % estimated

10. Stability and reactivity

ReactivityThe 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 Contact with incompatible materials. Welding. When exposed to extreme heat or hot surfaces,

vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and

possibly phosgene.

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

Hazardous decomposition

products

Hydrogen chloride. Trace amounts of chlorine and phosgene.

11. Toxicological information

Information on likely routes of exposure

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.

Inhalation Headache. Nausea, vomiting. Vapors have a narcotic effect and may cause headache, fatique,

dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by

inhalation.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Material name: Lectra-Motive® Electric Parts Cleaner

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache,

dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity Narcotic effects.

Product Species Test Results

Lectra-Motive® Electric Parts Cleaner

Acute

Dermal

LD50 Rabbit 3228 mg/kg estimated

Inhalation

LC50 Rat > 20 mg/l, 4 hours

Oral

LD50 Rat 2629 mg/kg estimated

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Dire

Direct contact with eyes may cause temporary irritation.

Respiratory sensitization Not available.

Skin sensitizationBased on available data, the classification criteria are not met. Frequent or prolonged contact may

defat and dry the skin, leading to discomfort and dermatitis.

Germ cell mutagenicityNo 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 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 toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Narcotic effects. May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazardMay be an aspiration hazard. 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 Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause

damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Product		Species	Test Results
Lectra-Motive® Elect	ric Parts Cleaner		
Aquatic			
Fish	LC50	Fish	18.7329 mg/l, 96 hours estimated
Components		Species	Test Results
Tetrachloroethylene	(CAS 127-18-4)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.73 - 5.27 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential Not available.

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^{*} Estimates for product may be based on additional component data not shown.

Partition coefficient n-octanol / water (log Kow)

Lectra-Motive® Electric 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 This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable

regulations.

D039: Waste Tetrachloroethylene Hazardous waste code

F001: Waste Tetrachloroethylene - Spent halogenated solvent used in degreasing

F002: Waste Tetrachloroethylene - Spent halogenated solvent

US RCRA Hazardous Waste U List: Reference

U210 Tetrachloroethylene (CAS 127-18-4)

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN1897 **UN number**

UN proper shipping name

Transport hazard class(es)

Tetrachloroethylene (RQ = 100 lbs), MARINE POLLUTANT

6.1(PGIII) Class Subsidiary risk

Label(s) 6.1 Packing group Ш

Environmental hazards

Marine pollutant Yes

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

IB3, N36, T4, TP1 **Special provisions**

153 Packaging exceptions 203 Packaging non bulk Packaging bulk 241

IATA

UN1897 **UN** number

UN proper shipping name

Tetrachloroethylene

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Packing group Ш **Environmental hazards** Yes **ERG Code** 61

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

Allowed.

Other information

Passenger and cargo

aircraft

Cargo aircraft only Allowed.

IMDG

UN number UN1897

UN proper shipping name

TETRACHLOROETHYLENE, MARINE POLLUTANT

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant Yes

Material name: Lectra-Motive® Electric Parts Cleaner 05024 Version #: 02 Revision date: 09-18-2014 Issue date: 02-17-2014

F-A, S-A **EmS**

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

General information DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Tetrachloroethylene (CAS 127-18-4)

CERCLA Hazardous Substance List (40 CFR 302.4)

Tetrachloroethylene (CAS 127-18-4)

CERCLA Hazardous Substances: Reportable quantity

Tetrachloroethylene (CAS 127-18-4)

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.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Tetrachloroethylene (CAS 127-18-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Section 311/312** Delayed Hazard - Yes **Hazard categories** Fire Hazard - No Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. New Jersey Worker and Community Right-to-Know Act

Tetrachloroethylene (CAS 127-18-4)

US. Massachusetts RTK - Substance List

Tetrachloroethylene (CAS 127-18-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Tetrachloroethylene (CAS 127-18-4)

US. Rhode Island RTK

Tetrachloroethylene (CAS 127-18-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

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Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 0 %

51.100(s))

Consumer products

(40 CFR 59, Subpt. C)

Not regulated

Inventory name

State

Consumer products

This product is regulated as an Energized Electrical Cleaner for the following states: California, Connecticut, Delaware, District of Columbia, Illinois, Indiana, Maine, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, Rhode Island and Virginia. It is for energized equipment use only. It is not to be used for motorized vehicle maintenance or their parts. This product is compliant for use in all 50 states.

VOC content (CA) 0 % VOC content (OTC) 0 %

International Inventories

Country(s) or region

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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
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)

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

Yes

On inventory (yes/no)*

16. Other information, including date of preparation or last revision

Issue date02-17-2014Revision date09-18-2014Prepared byAllison Cho

Version # 02

Further information CRC # 491G
HMIS® ratings Health: 2*
Flammability: 0

Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



^{*}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).

Disclaimer

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