SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 05018
MANUFACTURER NAME: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974
BUSINESS PHONE: (215) 674-4300
Technical Assistance: (800) 521-3168
Customer Service: (800) 272-8963
CHEMTREC: (800) 424-9300
EMAIL: www.crcindustries.com
TRADE NAME: Lectra Motive® Electric Parts Cleaner (aerosol)
PRODUCT NAME: Lectra Motive Electric Parts Cleaner (aerosol)
MSDS Manufacturer Number: 05018

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Ingredient Percent
Tetrachloroethylene (PERC)	127-18-4	> 95 by Weight
Carbon Dioxide	124-38-9	<5 by Weight

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER Vapor Harmful. Contents Under Pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous.
Appearance & Odor: Colorless liquid, irritating odor at high concentrations
EYE CONTACT: May cause slight temporary eye irritation. Vapors may irritate the eyes at concentrations of 100 ppm.
SKIN CONTACT: 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 Organ Effects: Central nervous system. Possibly liver and kidney.
Hazards Comments: See Section 11 for toxicology and carcinogenicity information on product ingredients.

SECTION 4 - FIRST AID MEASURES

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.**

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:	**This product is nonflammable.**
FLASH POINT:	**None (TCC)**
FLAMMABLE LIMITS - UEL:	**None**
AUTOIGNITION TEMPERATURE:	**None**
FLAMMABLE LIMITS - LEL:	**None**
EXTINGUISHING MEDIA:	**This material does not burn. Use extinguishing agent suitable for surrounding fire.**
HAZARDOUS COMBUSTION PRODUCTS:	**Hydrogen chloride. Trace amounts of phosgene, and chlorine.**
PROTECTIVE EQUIPMENT:	**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.**

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	**liquid**
COLOR:	**colorless**
ODOR:	**irritating odor**
SPECIFIC GRAVITY:	**1.619**
INITIAL BOILING POINT:	**250 F**
FREEZING POINT:	**ND**
VAPOR PRESSURE:	**13 mmHg @ 68 F**
VAPOR DENSITY:	**5.76 (air = 1)**
EVAPORATION RATE:	**> 1 (ether = 1)**
SOLUBILITY:	**0.015 g/ 100 g @ 77 F in water**
pH:	**NA**
VOLATILE ORGANIC COMPOUNDS:	**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	**Hydrogen chloride, trace amounts of chlorine and phosgene**

PRODUCTS:	
DANGEROUS REACTIONS:	**No**

SECTION 11 - TOXICOLOGICAL INFORMATION

OSHA:	**Tetrachloroethylene Hazard communication carcinogen**
IARC:	**Tetrachloroethylene 2A (Probably carcinogenic)**
NTP:	**Tetrachloroethylene Reasonably anticipated to be a carcinogen**
MUTAGENICITY:	**tetrachloroethylene in vitro studies were negative animal studies were negative**
Additional toxicological information:	**None**
Toxicological Comments:	**Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.**
Chemical Name:	**tetrachloroethylene**
ACUTE TOXICITY (Ingredient):	**Test: LD50; Result: > 10 g/kg; Route: dermal; Species: rabbit**
Chemical Name:	**tetrachloroethylene**
ACUTE TOXICITY (Ingredient):	**Test: LD50; Result: 2629 mg/kg; Route: oral; Species: rat**
Chemical Name:	**tetrachloroethylene**
ACUTE TOXICITY (Ingredient):	**Test: LC50; Result: 5200 mg/kg/4H; Route: inhalation; Species: mouse**

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	**The dispensed liquid 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) Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product should be managed as a hazardous waste. All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.**

SECTION 14 - TRANSPORT INFORMATION

DOT:	**Consumer Commodity, ORM-D**
Special Provisions:	**None**

SECTION 16 - ADDITIONAL INFORMATION

MSDS AUTHOR:	**Michelle Rudnick**
CRC #:	**491G**
MSDS REVISION DATE:	**01/07/2009**
Revision Changes:	**Section 15: Additional Regulatory Information revised**
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 Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.**
ABBREVIATIONS:	**CAS: Chemical Abstract Service NA: Not Applicable ppm: Parts per Million ND: Not Determined TCC: Tag Closed Cup NE: Not Established PMCC: Pensky-Martens Closed Cup g/L: grams per Liter PPE: Personal Protection Equipment lbs./gal: pounds per gallon TWA: Time Weighted Average STEL: Short Term Exposure Limit OSHA: Occupational Safety and Health Administration ACGIH American Association of Governmental Industrial Hygienists NIOSH National Institute of Occupational Safety & Health**
NFPA - HEALTH:	**2**
NFPA - FIRE:	**0**

NFPA - REACTIVITY:	**0**
HMIS - HEALTH:	**2**
HMIS - FLAMMABILITY:	**0**
HMIS - REACTIVITY:	**0**
HMIS - PERSONAL PROTECTION:	**B**