

SAFETY DATA SHEET

1. Identification

Product identifier	Electrical Parts Cleaner			
Other means of identification				
Product Code	No. 02183 (Item# 1003237)			
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 Assistance	800-521-3168			
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	1			
Physical hazards	Not classified.			
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	Category 2		
	Hazardous to the aquatic environment, long-term hazard	Category 2		
OSHA defined hazards	Not classified.			
Label elements				
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. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.			
Precautionary statement				
Prevention	and understood. Use with adequate ventilation ensure a fresh air supply during use and while listed on this label, increase ventilation or leav thoroughly after handling. Contaminated work	handle until all safety precautions have been read b. Open doors and windows or use other means to product is drying. If you experience any symptoms e the area. Avoid breathing mist or vapor. Wash clothing must not be allowed out of the workplace. protection/face protection. Avoid release to the		

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 or rash occurs: Get medical advice/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 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. 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.
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/o	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. If skin irritation or rash occurs: Get medical advice/attention. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth. Get Ingestion medical attention if symptoms occur. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous Most important membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation symptoms/effects, acute and of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin delayed reaction. Dermatitis. Rash. Provide general supportive measures and treat symptomatically. Keep victim under observation. Indication of immediate medical attention and special Symptoms may be delayed. treatment needed **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 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	Move containers from fire area if you can do so without risk.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions,
protective equipment and
emergency proceduresKeep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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. 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. 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. Avoid breathing 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. 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. Keep container tightly closed. 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.

Components		Туре	v	alue
tetrachloroethylene (CAS 127-18-4)		Ceiling	2	00 ppm
,		TWA	1	00 ppm
US. ACGIH Threshold Lim	nit Values			
Components		Туре	v	alue
tetrachloroethylene (CAS 127-18-4)		STEL	1	00 ppm
,		TWA	2	5 ppm
ogical limit values				
ACGIH Biological Exposu	re 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 should be available when handling this product. Provide eyewash station.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	

Wear protective gloves such as: Nitrile. Viton/butyl. Polyvinyl alcohol (PVA). Silver Shield®

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. 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. Contaminated work clothing should not be allowed out of the workplace.	

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Irritating.
Odor threshold	50 ppm
рН	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 exp	losive 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(ies)	
Solubility (water)	0.02 % (77 °F (25 °C))
Partition coefficient (n-octanol/water)	2.88
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Percent volatile	100 % estimated

10. Stability and reactivity

Reactivity Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. 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 chloride and possibly phosgene.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides. Halogenated materials. Carbonyl halides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting.	
Skin contact	Causes skin irritation. May cause an allergic skin reaction.	
Eye contact	Causes eye irritation.	
Ingestion	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort. Irritation of nose and throat. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.	

Information on toxicological effects

Aquatic

Acute toxicity	None known.		
Components	Species	Test Results	
tetrachloroethylene (CAS 127-18-4	4)		
Acute			
Dermal			
LD50	Rabbit	> 3228 mg/kg	
Oral			
LD50	Rat	2629 mg/kg	
* Estimates for product may b	e based on additional com	ponent data not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitization	n		
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	Evaluation of Carcinoge	licity	
tetrachloroethylene (CAS OSHA Specifically Regulate Not regulated. US. National Toxicology Pro	ed Substances (29 CFR 1		
tetrachloroethylene (CAS	5 127-18-4)	Reasonably Anticipated 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 and dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation ma	y be harmful. Prolonged exposure may cause chronic effects.	
12. Ecological information	n		
Ecotoxicity	Toxic to aquatic life with	long lasting effects.	

Persistence and degradability Bioaccumulative potential	No data is available on the degradability of any ingredients in the mixture.		
Partition coefficient n-octan Electrical Parts Cleaner tetrachloroethylene	ol / water (log Kow) 2.88 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 consideratio	ns		
Disposal instructions	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.		
Hazardous waste code	D039: Waste Tetrachloroethylene F001: Waste Tetrachloroethylene - Spent halogenated solvent used in degreasing F002: Waste Tetrachloroethylene - Spent halogenated solvent		
US RCRA Hazardous Waste	U List: Reference		
tetrachloroethylene (CAS	127-18-4) U210		
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		

14. Transport information

emptied.

DOT

00	1	
	UN number	UN1897
	UN proper shipping name	Tetrachloroethylene (RQ = 100 LBS), MARINE POLLUTANT
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Label(s)	6.1
	Packing group	III
	Environmental hazards	
	Marine pollutant	Yes.
	-	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	IB3, N36, T4, TP1
	Packaging exceptions	153
	Packaging non bulk	203
	Packaging bulk	241
IAT	A	
	UN number	UN1897
	UN proper shipping name	Tetrachloroethylene
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	III
	ERG Code	6L
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo	Allowed with restrictions.
	aircraft	
	Cargo aircraft only	Allowed with restrictions.
IME	-	
	UN number	UN1897
	UN proper shipping name	TETRACHLOROETHYLENE, MARINE POLLUTANT
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	III

Environmental hazards Marine pollutant EmS Special precautions for user	Yes. F-A, S-A Read safety instructions, SDS	and emergency pro	cedures before handling.
15. Regulatory information	า		
US federal regulations	This product is a "Hazardous C Standard, 29 CFR 1910.1200. All components are on the U.S		d by the OSHA Hazard Communication
TSCA Section 12(b) Export N	Notification (40 CFR 707, Subp	ot. D)	
Not regulated. SARA 304 Emergency releas	e notification		
	d Substances (29 CFR 1910.10	001-1052)	
	ection 313 - Toxic Chemical: L	_isted substance	
tetrachloroethylene (CAS CERCLA Hazardous Substar			
tetrachloroethylene (CAS CERCLA Hazardous Substar	127-18-4)	Listed.	
tetrachloroethylene (CAS		100 LBS	
	g in the loss of any ingredient at 24-8802) and to your Local Emer		uire immediate notification to the National nmittee.
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants	(HAPs) List	
	127-18-4) 112(r) Accidental Release Pre	evention (40 CFR 68	8.130)
Not regulated.	Not regulated		
Safe Drinking Water Act (SDWA)	Not regulated.		
Food and Drug Administration (FDA)	Not regulated.		
Superfund Amendments and Rea	-		
Classified hazard categories	Acute toxicity (any route of exp Skin corrosion or irritation Serious eye damage or eye irr Respiratory or skin sensitizatio Carcinogenicity	itation	
	Specific target organ toxicity (s	single or repeated ex	kposure)
SARA 302 Extremely hazard Not listed.	ous substance		
SARA 313 (TRI reporting) Chemical name	CAS	number	% by wt.
tetrachloroethylene	127	-18-4	90 - 100
US state regulations			
US. New Jersey Worker and	Community Right-to-Know Ad	ct	
tetrachloroethylene (CAS US. Massachusetts RTK - Su			
tetrachloroethylene (CAS US. Pennsylvania Worker an	127-18-4) Id Community Right-to-Know	Law	
tetrachloroethylene (CAS US. Rhode Island RTK	127-18-4)		
tetrachloroethylene (CAS	127-18-4)		



WARNING: Cancer - www.P65Warnings.ca.gov

California Dranasitian (COT. Listed data/Consistences	
	65 - CRT: Listed date/Carcinogenic substance	
tetrachloroethylene (US. California. Candida subd. (a))	CAS 127-18-4) Listed: April 1, 1988 te Chemicals List. Safer Consumer Products Regulations (Cal. C	Code Regs, tit. 22, 69502.3,
tetrachloroethylene (CAS 127-18-4)	
Volatile organic compounds (VO EPA	DC) regulations	
VOC content (40 CFR 51.100(s))	0 %	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is regulated as an Energized Electrical Cleaner for the Connecticut, Delaware, District of Columbia, Illinois, Indiana, Main Michigan, New Jersey, New York, Ohio, Pennsylvania, Rhode Isla energized equipment use only. It is not to be used for motorized ve parts. This product is compliant for use in all 50 states.	e, Maryland, Massachusetts, nd and Virginia. It is for
VOC content (CA)	0 %	
VOC content (OTC)	0 %	
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)	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 (PICCS)	Yes
— .	Taiwan Toxic Chemical Substances (TCS)	Yes
Taiwan		100

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	01-13-2014
Revision date	01-26-2018
Prepared by	Allison Yoon
Version #	03
Further information	CRC # 491G/1002481
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0 Personal protection: B Health: 2 Flammability: 0 Instability: 0



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clarification of any information contained on this (M)SDS consult your supervisor, a health & safety
professional, or CRC Industries, Inc..Revision informationThis document has undergone significant changes and should be reviewed in its entirety.