

# SAFETY DATA SHEET

# 1. Identification

Product identifier	Coil Cleaner				
Other means of identification					
Product code	03195				
Recommended use	Coil cleaner				
Recommended restrictions	None known.				
Manufacturer/Importer/Supplie	r/Distributor information				
Manufactured or sold by:					
Company name	CRC Industries, Inc.				
Address	885 Louis Dr.				
Telephone	Warminster, PA 18974 US				
General Information	215-674-4300				
Technical	800-521-3168				
Assistance					
Customer Service	800-272-4620				
24-Hour Emergency (CHEMTREC)	800-424-9300 (US) 703 527 3887 (International)				
(CHEMIREC) Website	703-527-3887 (International) www.crcindustries.com				
2. Hazard(s) identification	1				
Physical hazards	Gases under pressure	Compressed gas			
Health hazards	Acute toxicity, inhalation	Category 4			
	Skin corrosion/irritation	Category 2			
	Serious eye damage/eye irritation	Category 2B			
	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	Contains gas under pressure; may explode if heated. Causes skin irritation. Causes eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May cause cancer by inhalation or ingestion. Toxic to aquatic life. 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			

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. 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. Avoid breathing gas. Wash 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 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 attention. If exposed or concerned: Get medical attention. Collect spillage.
Storage	Store in a well-ventilated place. Store locked up. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

### Supplemental information

10.21% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 2.4% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. 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	80 - 90
COzol® 210		Proprietary	5 - 10
Carbon dioxide		124-38-9	1 - 3

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. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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	If ingestion of a large amount does occur, call a poison control center immediately. Rinse mouth. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Irritation of eyes and mucous membranes. Irritation of nose and throat. Exposed individuals may experience eye tearing, redness, and discomfort. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. 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.
5. Fire-fighting measures	
Suitable extinguishing media	Water spray. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. 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	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

### 6. Accidental release measures

Personal precautions,	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of		
protective equipment and emergency procedures	low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and spray mists. Avoid breathing gas. 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	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Stop the flow of material, if this is without risk. Collect spillage. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. 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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid inhalation of vapors and spray mists. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.		
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.		
• • •	Contents under pressure. Do not expose to heat or store at temperatures above $120^{\circ}F/40^{\circ}C$ as		

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
Trans-1,2-dichloroethylene (CAS 156-60-5)	PEL	790 mg/m3	
		200 ppm	
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 Values	5		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
	TWA	25 ppm	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	

# US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	790 mg/m3	
````		200 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).	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA). Air monitoring is needed to determine actual employee exposure levels.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	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.	

# 9. Physical and chemical properties

Appearance			
Physical state	Liquid.		
Form	Aerosol.		
Color	Colorless.		
Odor	Solvent.		
Odor threshold	Not available.		
рН	Not available.		
Melting point/freezing point	-112 °F (-80 °C) estimated		
Initial boiling point and boiling range	119.7 °F (48.7 °C) estimated		
Flash point	None (Tag Closed Cup)		
Evaporation rate	Fast.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or explosive limits			
Flammability limit - lower (%)	6.7 % estimated		

Flammability limit - upper (%)	18 % estimated
Vapor pressure	1443.6 hPa estimated
Vapor density	> 4 (air = 1)
Relative density	1.58
Solubility (water)	Slight.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	860 °F (460 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	97.6 % 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.		
Hazardous decomposition products	Hydrogen chloride. Hydrogen fluoride. Phosgene. Carbon oxides.		

# 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	Harmful if inhaled. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of nose and throat. Irritation of eyes and mucous membranes. May cause redness and pain. Exposed individuals may experience eye tearing, redness, and discomfort. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

### Information on toxicological effects

Acute toxicityHarmful if inhaled. Narcotic effects.ProductSpecies		Test Results	
Acute			
Dermal			
LD50	Rabbit	3428.897 mg/kg estimated	
Inhalation			
LC50	Rat	5840.1641 mg/l, 4 hours estimated	
		4487.5278 ppm, 4 hours estimated	
Oral			
LD50	Rat	2492.2361 mg/kg estimated	
Subchronic			
Inhalation			
LC50	Rat	51229.5078 ppm, 90 days estimated	

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes eye irritation.			
Respiratory sensitization	Not available.	Not available.		
Skin sensitization	This product is not expected t	o cause skin sensitization.		
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 Carcinogenicity				
Tetrachloroethylene (CAS US. National Toxicology Pro	6 127-18-4) o <mark>gram (NTP) Report on Carci</mark> n	2A Probably carcinogenic to humans. ogens		
Tetrachloroethylene (CAS	6 127-18-4)	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 or dizziness.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Based on available data, the	classification criteria are not met. May be an aspiration hazard.		
Chronic effects	Prolonged inhalation may be	narmful. Prolonged exposure may cause chronic effects.		

# 12. Ecological information

otoxicity	Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Product		Species	Test Results
Coil Cleaner			
Aquatic			
Fish	LC50	Fish	21.3261 mg/l, 96 hours estimated
Acute			
Crustacea	EC50	Daphnia	494.2457 mg/l, 48 hours estimated
Components		Species	Test Results
Tetrachloroethylene (0	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.

Persistence and degradability	No data is available of the degradability of this product.	
Bioaccumulative potential	No data available.	
Partition coefficient n-octar	nol / water (log Kow)	
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. Empty container can be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. 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
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			
UN number	UN1950		
UN proper shipping name	Aerosols, poison, Limited Quantity, MARINE POLLUTANT		
Transport hazard class(es)			
Class	2.2		
Subsidiary risk	6.1(PGIII)		
Label(s)	2.2, 6.1		
Packing group	Not applicable.		
Environmental hazards			
Marine pollutant	Yes		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
Special provisions	Not available.		
Packaging exceptions	306		
Packaging non bulk	None		
Packaging bulk	None		
ΙΑΤΑ			
UN number	UN1950		
UN proper shipping name	Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III, Limited		
Transport hazard class(es)	Quantity		
Class			
Subsidiary risk	6.1(PGIII) Not applicable.		
Packing group Environmental hazards	No.		
ERG Code	2P		
	Read safety instructions, SDS and emergency procedures before handling.		
Other information	riced salety instructions, obe and emergency procedures before handling.		
Passenger and cargo	Allowed.		
aircraft	,		
Cargo aircraft only	Allowed.		
IMDG			
UN number	UN1950		
UN proper shipping name	AEROSOLS, MARINE POLLUTANT		
Transport hazard class(es)			
Class	2		
Subsidiary risk	6.1		
Packing group	Not applicable.		
Environmental hazards			
Marine pollutant	Yes		
EmS	Not available.		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
General information	DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.		
15 Degulatory information			

# 15. Regulatory information

US federal regulations	Standard, 29 CFR 191	ardous Chemical" as defined by the OSHA Hazard Communication 0.1200. the U.S. EPA TSCA Inventory List.	
TSCA Section 12(b) Exp	ort Notification (40 CFR 70	7, Subpt. D)	
Decafluoropentane (0 SARA 304 Emergency re	,	1.0 % One-Time Export Notification only.	
Not regulated. US. OSHA Specifically F	Regulated Substances (29 (	CFR 1910.1001-1050)	
Not listed. US EPCRA (SARA Title	III) Section 313 - Toxic Che	mical: Listed substance	
Tetrachloroethylene ( CERCLA Hazardous Sul	CAS 127-18-4) ostance List (40 CFR 302.4	)	
Tetrachloroethylene ( Trans-1,2-dichloroeth	CAS 127-18-4) iylene (CAS 156-60-5)		
Material name: Coil Cleaner			SDS U

### **CERCLA Hazardous Substances: Reportable quantity**

Tetrachloroethylene (CAS 127-18-4)	100 LBS
Trans-1,2-dichloroethylene (CAS 156-60-5)	1000 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 (SDWA)	Not regulated.
Food and Drug	Not regulated.

Administration (FDA)

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No

### **US state regulations**

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

Carbon dioxide (CAS 124-38-9) Tetrachloroethylene (CAS 127-18-4) Trans-1,2-dichloroethylene (CAS 156-60-5)

### US. Massachusetts RTK - Substance List Carbon dioxide (CAS 124-38-9)

Tetrachloroethylene (CAS 127-18-4) Trans-1,2-dichloroethylene (CAS 156-60-5)

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

Tetrachloroethylene (CAS 127-18-4) Carbon dioxide (CAS 124-38-9) Trans-1,2-dichloroethylene (CAS 156-60-5)

### US. Rhode Island RTK

Tetrachloroethylene (CAS 127-18-4) Trans-1,2-dichloroethylene (CAS 156-60-5)

### **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)

### Volatile organic compounds (VOC) regulations

### EPA

VOC content (40 CFR 51.100(s))	7.8 %
Consumer products (40 CFR 59, Subpt. C)	Not regulated
State	
Consumer products	Not regulated
VOC content (CA)	9.8 %
VOC content (OTC)	7.8 %

### 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

Listed: April 1, 1988

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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	05-19-2014
Prepared by	Allison Cho
Version #	01
Further information	CRC # 894A
HMIS <sup>®</sup> ratings	Health: 2* Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
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. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.