



# 1. Identification

Product identifier	Cable Clean® HF™ High Voltage Cle	eaner (High Flash)
Other means of identification		
Product code	02170	
Recommended use	Splice and termination cleaner for high	voltage cables
Recommended restrictions	None known.	
Manufacturer/Importer/Supplie	r/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	1	
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas

	Gases under pressure	Compressed gas
Health hazards	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	$\land \land \land \land$	
	$\lor$ $\lor$ $\lor$ $\lor$	
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Contains gas ur swallowed and enters airways. Causes skin irr	nder pressure; may explode if heated. May be fatal if itation. May cause drowsiness or dizziness.
Precautionary statement		
Prevention	flame or other ignition source. Do not apply wh Do not pierce or burn, even after use. Extingui accumulate readily and may ignite. Avoid brea ventilation; maintain ventilation during use and	l until all vapors are gone. Open doors and windows y during use and while product is drying. If you increase ventilation or leave the area. Avoid
Response		
Storage	Store in a well-ventilated place. Store locked u temperatures exceeding 50°C/122°F. Exposur	

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light		64742-47-8	90 - 100
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. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical 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. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
Most important symptoms/effects, acute and delayed	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation. May cause 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.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media	Powder. Alcohol resistant foam. Dry chemicals. 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	Contents under pressure. Pressurized container may explode when exposed to heat or flame.	
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. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.	
General fire hazards	Extremely flammable aerosol.	

### 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. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. 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 discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling	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 breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol.
	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

ccupational exposure limits			
US. OSHA Table Z-1 Limits Components	s for Air Contaminants (29 CFR 1910. <sup>,</sup> Type	1000) Value	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
124 00 0)		5000 ppm	
US. ACGIH Threshold Lim			
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 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	
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
iological limit values	No biological exposure limits noted f	or the ingredient(s).	
ppropriate engineering ontrols	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.		
ndividual protection measure	s, such as personal protective equipn	nent	
Eye/face protection	Not available.		
Skin protection			
Hand protection	Wear protective gloves such as: Nitr	ile. Neoprene.	
Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	Air monitoring is needed to determine actual employee exposure levels.		
Thermal hazards	Wear appropriate thermal protective	Wear appropriate thermal protective clothing, when necessary.	
eneral hygiene onsiderations	When using, do not eat, drink or 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

s. i nysicai ana chemicai	
Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Clear.
Odor	Mild hydrocarbon.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-72.4 °F (-58 °C) estimated
Initial boiling point and boiling range	430 °F (221.1 °C) estimated
Flash point	204 °F (95.6 °C) Tag Closed Cup
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	0.6 % estimated
Flammability limit - upper (%)	5.5 % estimated
Vapor pressure	1624.9 hPa estimated
Vapor density	4.5 (air = 1)
Relative density	0.82 estimated
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	456.8 °F (236 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	97.2 % 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. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

# 11. Toxicological information

Information on likely routes of	exposure
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.
Information on toxicological ef	fects

# Acute toxicity

May be fatal if swallowed and enters airways. Narcotic effects.

Product	Species	Test Results	
Cable Clean® HF™ High Volta	ge Cleaner (High Flash)		
Acute			
Dermal			
LD50	Rabbit	2058.4412 mg/kg estimated	
Inhalation			
LC50	Rat	5.3519 mg/l, 4 Hours estimated	
Oral			
LD50	Rat	5146.103 mg/kg estimated	
* Estimates for product ma	y be based on additional component da	ita not shown.	
Skin corrosion/irritation	Causes skin irritation.	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may caus	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	Not available.	Not available.	
Skin sensitization	This product is not expected to ca	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate prode mutagenic or genotoxic.	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to b	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	This product is not expected to ca	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity single exposure	- May cause drowsiness and dizzin	May cause drowsiness and dizziness.	
Specific target organ toxicity repeated exposure	- Not classified.	Not classified.	
Aspiration hazard	May be fatal if swallowed and ente	ers airways.	
Chronic effects	Prolonged inhalation may be harmful.		

# 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
Product		Species	Test Results		
Cable Clean® HF™ High Vo	ltage Cleane	r (High Flash)			
Aquatic					
Acute					
Fish	LC50	Fish	2.2643 mg/l, 96 hours estimated		
Components		Species	Test Results		
Distillates (petroleum), hydro	otreated light	(CAS 64742-47-8)			
Aquatic					
Acute					
Fish	LC50	Bluegill (Lepomis macrochirus)	2.2 mg/l, 96 hours		
* Estimates for product may	be based on	additional component data not shown.			
Persistence and degradability	Not availa	Not available.			
Bioaccumulative potential	Not availa	able.			
Mobility in soil	No data a	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 consideration	ons				
Disposal of waste from residues / unused products	Empty co	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33) Empty container can be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.			
Hazardous waste code	Not regula	ated.			

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, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
IATA	None
UN number	UN1950
UN proper shipping name Transport hazard class(es)	Aerosols, flammable, Limited Quantity
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
	Read safety instructions, SDS and emergency procedures before handling.
Other information	······································
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, LIMITED QUANTITY
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	Not applicable.
	No
Marine pollutant	No. Not available.
EmS Special processions for user	Read safety instructions, SDS and emergency procedures before handling.
Special precautions for user	Read salety instructions, SDS and emergency procedures before nandling.
15. Regulatory information	1
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 N	lotification (40 CFR 707, Subpt. D)
Not regulated.	······································
SARA 304 Emergency releas	e notification
Not regulated. US. OSHA Specifically Regu	lated Substances (29 CFR 1910.1001-1050)
Not listed.	

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

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

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

· · ·	112 Hazardous Air Pollutants (HAPs) List			
Not regulated.				
τ,	112(r) Accidental Release Prevention (40 CFR 68.130)			
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
Food and Drug Administration (FDA)	Not regulated.			
Superfund Amendments and	Reauthorization Act of 1986 (SARA)			
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes 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 Distillates (petroleum), hyd US. Massachusetts RTK - Su	drotreated light (CAS 64742-47-8)			
Carbon dioxide (CAS 124 US. Pennsylvania Worker an	-38-9) d Community Right-to-Know Law			
Carbon dioxide (CAS 124 Distillates (petroleum), hyd US. Rhode Island RTK	-38-9) drotreated light (CAS 64742-47-8)			
None.				
US. California Proposition 6	5			
	/ater and Toxic Enforcement Act of 1986 (Proposition 65): This material is sted as carcinogens or reproductive toxins.	not known to contain		
Volatile organic compounds (VO	C) regulations			
EPA				
VOC content (40 CFR 51.100(s))	97.2 %			
Consumer products (40 CFR 59, Subpt. C)	Not regulated			
State				
Consumer products	Not regulated			
VOC content (CA)	0 %			
VOC content (OTC)	0 %			
International Inventories				
<b>Country(s) or region</b> Australia	Inventory name Australian Inventory of Chemical Substances (AICS)	<b>On inventory (yes/no)</b> * 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	Yes		
	Substances (EINECS)			
Europe	European List of Notified Chemical Substances (ELINCS)	No Yes		
Japan Koroa	Inventory of Existing and New Chemical Substances (ENCS)			
Korea New Zealand	Existing Chemicals List (ECL)	Yes		
	New Zealand Inventory	Yes		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes		

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

\*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 # 493A
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 3 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.