# CRC.

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Cable Clean® High Voltage Splice Cleaner

Other means of identification

Product code 02069

Recommended use Splice and termination 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 Flammable aerosols Category 2

Gases under pressure Compressed gas

Health hazards Acute toxicity, oral Category 4

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard

**Environmental hazards** Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed.

May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause

drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. 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. Do not eat, drink or smoke when using this product. Wear eye/face

Category 1

Category 3

protection. Avoid release to the environment.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. 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.

**Storage** Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. 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

6.8% 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**

COzol® 103  Common name and synonym		CAS number	<b>%</b> 80 - 90	
		Proprietary		
Decafluoropentane	HFC 43-10mee	138495-42-8	10 - 20	
Carbon dioxide		124-38-9	3 - 5	
COzol® 104		Proprietary	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	l keep at rest in a position comfortable for l	breathing. Call a POISON
	<u> </u>		

CENTER or doctor/physician if you feel unwell.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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 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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

under observation. Symptoms may be delayed.

General information

media

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Powder. Foam. Carbon dioxide (CO2).

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. 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 phospene.

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.

General fire hazards

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. This product is miscible in water. Stop the flow of material, if this is without risk. Collect spillage. 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 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

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. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. 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.

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

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. ACGIH Threshold Limit Value	ies		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
Trans-1,2-dichloroethylene (CAS 156-60-5)	TWA	200 ppm	
US. NIOSH: Pocket Guide to Ch	emical 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 Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

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. Provide eyewash station.

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: Nitrile. Viton®. Polyvinyl alcohol (PVA).

**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

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

**Appearance** 

Physical state Liquid.
Form Aerosol.

Color Clear. Colorless.

Odor Slight ethereal.

Odor threshold Not available.

pH Not available.

Melting point/freezing point -112 °F (-80 °C) estimated Initial boiling point and boiling 119.7 °F (48.7 °C) estimated

range

Flash point None (Tag Closed Cup)

**Evaporation rate** Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

2 % estimated

(%)

Flammability limit - upper

18 % estimated

(%)

Vapor pressure 2631.8 hPa estimated

Vapor densityNot available.Relative density1.28 estimatedSolubility (water)Not available.Partition coefficientNot available.

(n-octanol/water)

**Auto-ignition temperature** 860 °F (460 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.Percent volatile96.1 % 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. Strong acids. Strong bases. Alkali metals. Alkaline earth metals.

Powdered metal.

Material name: Cable Clean® High Voltage Splice Cleaner

Carbon oxides. Hydrogen chloride. Phosgene. Hydrogen fluoride.

# 11. Toxicological information

Information on likely routes of exposure

Ingestion May be fatal if swallowed and enters airways. Harmful if swallowed.

**Inhalation** Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea,

vomiting.

**Skin contact** Prolonged contact may cause irritation and defatting of skin.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. May be fatal if swallowed and enters airways. Narcotic effects.

Product Species Test Results

Cable Clean® High Voltage Splice Cleaner

Acute

Dermal

LD50 Rabbit 5033.2 mg/kg calculated

Inhalation

LC50 Rat 96.6 mg/l, 4 hours calculated

Oral

LD50 Rat 1465.7 mg/kg calculated

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to 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** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**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** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful.

# 12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product Species Test Results

Cable Clean® High Voltage Splice Cleaner

Aquatic

Acute

Crustacea EC50 Daphnia 63.8336 mg/l, 48 hours estimated Fish LC50 Fish 73.0448 mg/l, 96 hours estimated

Material name: Cable Clean® High Voltage Splice Cleaner

1700 Version #: 02 Revision date: 06-25-2014 Issue date: 06-24-2014

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Components **Species Test Results** 

Decafluoropentane (CAS 138495-42-8)

**Aquatic** 

Acute

EC50 Crustacea Water flea (Daphnia magna) 11.7 mg/l, 48 hours Fish LC50 Zebra danio (Danio rerio) 13 mg/l, 96 hours

Persistence and degradability Not available. Not available. Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow) Decafluoropentane 2.7, Pow at 20 °C

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

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. 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 Not regulated.

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

UN1950 **UN** number

**UN proper shipping name** 

Transport hazard class(es)

Aerosols, flammable, Limited Quantity

2.1 Class Subsidiary risk Label(s) 2.1

Not applicable. Packing group

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

**Special provisions** N82 Packaging exceptions 306 Packaging non bulk None Packaging bulk None

IATA

UN1950 **UN** number

**UN** proper shipping name Aerosols, flammable, Limited Quantity

Transport hazard class(es)

2.1 Class Subsidiary risk

Not applicable. Packing group

**Environmental hazards** No. **ERG Code** 10L

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

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

**UN** number UN1950

AEROSOLS, LIMITED QUANTITY **UN proper shipping name** 

1700 Version #: 02 Revision date: 06-25-2014 Issue date: 06-24-2014

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Transport hazard class(es)

Class 2 Subsidiary risk

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant No.

Not available. **FmS** 

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

# 15. Regulatory information

All components are on the U.S. EPA TSCA Inventory List. **US** federal regulations

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

Standard, 29 CFR 1910.1200.

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

Decafluoropentane (CAS 138495-42-8) 1.0 % One-Time Export Notification only.

#### SARA 304 Emergency release notification

Not regulated.

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

Not listed.

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

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Trans-1,2-dichloroethylene (CAS 156-60-5)

# **CERCLA Hazardous Substances: Reportable quantity**

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Not regulated. Food and Drug

Administration (FDA)

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

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

Pressure Hazard - Yes Reactivity Hazard - No

**SARA 302 Extremely** No hazardous substance

#### **US state regulations**

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

Carbon dioxide (CAS 124-38-9)

Trans-1,2-dichloroethylene (CAS 156-60-5)

## **US. Massachusetts RTK - Substance List**

Carbon dioxide (CAS 124-38-9)

Trans-1,2-dichloroethylene (CAS 156-60-5)

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

Carbon dioxide (CAS 124-38-9)

Trans-1,2-dichloroethylene (CAS 156-60-5)

#### **US. Rhode Island RTK**

Trans-1,2-dichloroethylene (CAS 156-60-5)

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# **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR

81.7 %

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

VOC content (CA) 96.1 %
VOC content (OTC) 81.7 %

#### **International Inventories**

Inventory name	On inventory (yes/no)*
Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	No
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
	Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances

<sup>\*</sup>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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date06-24-2014Revision date06-25-2014Prepared byAllison Cho

Version # 02

United States & Puerto Rico

Further information CRC # 697

HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 0
Personal protection: B

NFPA ratings Health: 2

Flammability: 2 Instability: 0

NFPA ratings



#### 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.

Yes