# CRC.

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Cable Clean® RD™

Other means of identification

Product code 02152

**Recommended use**Cable 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 Not classified.

Health hazards Skin corrosion/irritation Category 2

Carcinogenicity Category 1B Reproductive toxicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Hazardous to the aquatic environment, Category 2

long-term hazard

OSHA defined hazards Not classified.

Label elements

**Environmental hazards** 



Signal word Danger

Hazard statement Causes skin irritation. May cause drowsiness or dizziness. May cause cancer. May damage

fertility or the unborn child. May cause damage to organs (liver, kidneys) through prolonged or

Category 2

repeated exposure. 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

and understood. 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. Do not breathe mist or vapor. 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 exposed or concerned:

Get medical attention. Collect spillage.

Material name: Cable Clean® RD™

SDS US

Storage Disposal Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

# 3. Composition/information on ingredients

	M	ixtu	res
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Chemical name	Common name and synonyms	CAS number	%
Tetrachloroethylene	Perchloroethylene	127-18-4	90 - 100
n-Propyl bromide		106-94-5	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

sheet to the doctor in attendance.

#### 4. First-aid measures

II I II OC GIG III OGGGGGGG	
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	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
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	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. Show this safety data

# 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
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 bromide, 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	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.
Gonoral fire hazards	No unusual fire or explosion hazards noted

equipment/instructions	risk. Containers should be cooled with water to prevent vapor pressure build up.		
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release me	asures		
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. Do not breathe 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. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.		
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or		

supervisory personnel of all environmental releases.

# 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. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. 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, please see the product label.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

Components	Туре	Value	
Tetrachloroethylene (CAS 127-18-4)	Ceiling	200 ppm	
,	TWA	100 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
n-Propyl bromide (CAS 106-94-5)	TWA	0.1 ppm	
Tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	25 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	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

US - California OELs: Skin designation

n-Propyl bromide (CAS 106-94-5)

Can be absorbed through the skin.

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: Polyvinyl alcohol (PVA). Viton®.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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.

SDS US

#### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Aerosol. Color Colorless. Odor Irritating. **Odor threshold** Not available. Not available. pН

-8.1 °F (-22.3 °C) estimated Melting point/freezing point Initial boiling point and boiling 159.8 °F (71 °C) estimated

range

None (Tag Closed Cup) Flash point

**Evaporation rate** Fast.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not determined. Flammability limit - lower

(%) Flammability limit - upper

Not determined.

Vapor pressure 19.9 hPa estimated

Vapor density > 1 (air = 1)

1.61 Relative density

Not available. Solubility (water) Partition coefficient Not available. (n-octanol/water)

**Auto-ignition temperature** 

914 °F (490 °C) estimated

**Decomposition temperature** Not available. Viscosity (kinematic) Not available. Percent volatile 100 % estimated

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. When exposed to extreme heat or hot surfaces, vapors may decompose

to harmful or fatal corrosive gases such as hydrogen bromide, hydrogen chloride and possibly

phosgene. Contact with incompatible materials.

Incompatible materials Acids. Bases. Strong oxidizing agents. Powdered metal. Sodium. Amines. Oxygen. Peroxide.

Hazardous decomposition

products

Hydrogen chloride. Hydrogen bromide. Chlorine. Phosgene. Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

Single dose oral toxicity is considered to be extremely low. Swallowing large amounts may cause Ingestion

injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in

injury to other body systems.

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause Inhalation

drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat.

Skin irritation. May cause redness and pain.

Narcotic effects. **Acute toxicity** 

Product Species		Test Results	
Cable Clean® RD™			
Acute			
Dermal			
LD50	Rabbit	3188.8411 mg/kg estimated	
Inhalation			
LC50	Rat	3863.2654 ppm, 4 hours estimated	
		20.407 mg/l, 4 Hours estimated	
Oral			
LD50	Rat	2640.2131 mg/kg estimated	

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

Direct contact with eyes may cause temporary irritation.

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

n-Propyl bromide (CAS 106-94-5) Reasonably Anticipated to be a Human Carcinogen. Tetrachloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity May damage fertility or the unborn child. Specific target organ toxicity -May cause drowsiness and dizziness.

single exposure

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure: Liver. Kidneys.

Not available. **Aspiration hazard** 

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause **Chronic effects** 

damage to organs through prolonged or repeated exposure.

#### 12. Ecological information

Ecotoxicity	Toxic to a	quatic life with long lasting effects.	
Product		Species	Test Results
Cable Clean® RD™			
Aquatic			
Fish	LC50	Fish	19.0125 mg/l, 96 hours estimated
Components		Species	Test Results
n-Propyl bromide (CAS	6 106-94-5)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	67.3 mg/l, 96 hours
Tetrachloroethylene (C	AS 127-18-4)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.73 - 5.27 mg/l, 96 hours

<sup>\*</sup> 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.

Material name: Cable Clean® RD™ 02152 Version #: 01 Issue date: 01-22-2015 Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

n-Propyl bromide 2.1 Tetrachloroethylene 2.88

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. 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.

F001: Waste Tetrachloroethylene - Spent halogenated solvent used in degreasing Hazardous waste code

F002: Waste Tetrachloroethylene - Spent halogenated solvent

D039: Waste Tetrachloroethylene

**US RCRA Hazardous Waste U List: Reference** 

Tetrachloroethylene (CAS 127-18-4) U210

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

UN2810 **UN** number

Toxic, liquids, organic, n.o.s. (Tetrachloroethylene RQ = 102 LBS, n-Propyl bromide RQ = 5263 **UN proper shipping name** 

LBS), Limited Quantity, MARINE POLLUTANT (Tetrachloroethylene)

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk Label(s) 6.1 Packing group Ш

**Environmental hazards** 

Yes Marine pollutant

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

**Special provisions** IB3, T7, TP1, TP28

153 Packaging exceptions 203 Packaging non bulk 241 Packaging bulk

IATA

UN2810 UN number

**UN** proper shipping name Transport hazard class(es) Toxic liquid, organic, n.o.s. (Tetrachloroethylene, n-Propyl bromide)

Class 6.1(PGIII)

Subsidiary risk Ш Packing group **Environmental hazards** No. **ERG Code** 6L

Other information

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

Passenger and cargo

aircraft

Allowed.

Allowed. Cargo aircraft only

**IMDG** 

**UN** number UN2810

TOXIC LIQUID, ORGANIC, N.O.S. (Tetrachloroethylene, n-Propyl bromide), LIMITED **UN proper shipping name** 

QUANTITY, MARINE POLLUTANT

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk

Packing group

**Environmental hazards** 

Marine pollutant Yes EmS F-A, S-A

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

#### 15. Regulatory information

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 Notification (40 CFR 707, Subpt. D)

Not regulated.

#### 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

Tetrachloroethylene (CAS 127-18-4)

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

Tetrachloroethylene (CAS 127-18-4)

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

Tetrachloroethylene (CAS 127-18-4)

100 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

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

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

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

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

#### **US state regulations**

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

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

n-Propyl bromide (CAS 106-94-5)

Tetrachloroethylene (CAS 127-18-4)

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

n-Propyl bromide (CAS 106-94-5)

Tetrachloroethylene (CAS 127-18-4)

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

Tetrachloroethylene (CAS 127-18-4)

n-Propyl bromide (CAS 106-94-5)

#### US. Rhode Island RTK

Tetrachloroethylene (CAS 127-18-4)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

n-Propyl bromide (CAS 106-94-5) Listed: December 7, 2004

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Isopropyl bromide (CAS 75-26-3) Listed: May 31, 2005 n-Propyl bromide (CAS 106-94-5) Listed: December 7, 2004

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Isopropyl bromide (CAS 75-26-3) Listed: May 31, 2005 n-Propyl bromide (CAS 106-94-5) Listed: December 7, 2004

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR 2 %

51.100(s))

Consumer products Not regulated

(40 CFR 59, Subpt. C)

State

VOC content (CA)

VOC content (OTC)

VOC content (OTC)

VOC content (OTC)

#### **International Inventories**

Country(s) or region

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Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

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

**Inventory name** 

Issue date01-22-2015Prepared byAllison Cho

Version # 01

United States & Puerto Rico

Further information CRC # 474B

HMIS® ratings Health: 2\*
Flammability: 0

Physical hazard: 0
Personal protection: B

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



Yes

On inventory (yes/no)\*

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).

#### **Disclaimer**

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.

Material name: Cable Clean® RD™
02152 Version #: 01 Issue date: 01-22-2015