

# SAFETY DATA SHEET

## 1. Identification

Product identifier Cable Clean® RD™

Other means of identification

**Product Code** No. 02152 (Item# 1003232)

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.

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

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye 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

Category 2 (kidney, liver, nervous system)

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

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May

cause cancer. May damage fertility or the unborn child. May cause damage to organs (kidney, liver, nervous system) through prolonged or repeated exposure. Toxic to aquatic life with long

Category 2

Category 2

lasting effects.

Precautionary statement

**Prevention** Obtain spec

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. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

#### Response

If on skin: Wash with plenty of water. If skin irritation 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 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.

### Supplemental information

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.

# 3. Composition/information on ingredients

#### **Mixtures**

Ingestion

media

Chemical name	Common name and synonyms	CAS number	%
tetrachloroethylene	perchloroethylene	127-18-4	90 - 100
n-propyl bromide	1-bromopropane	106-94-5	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 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. 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

**General information** 

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Edema. Jaundice. 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.

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 sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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 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 General fire hazards

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.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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

Prevent product from entering drains. 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. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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, see the product label.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. 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

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.

## 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				
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. 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: Polyvinyl alcohol (PVA). Viton/butyl.

Other Wear appropriate chemical resistant clothing.

Material name: Cable Clean® RD™

SDS US

Use a NIOSH-approved cartridge respirator with an organic vapor cartridge unless exposure is Respiratory protection

below the TLV. Air monitoring is needed to determine actual employee exposure levels. Use a

self-contained breathing apparatus in confined spaces and for emergencies.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. 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** Liquid. Color Colorless. Odor Irritating. **Odor threshold** Not available. Not available. pН

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

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.

(%)

19.9 hPa estimated Vapor pressure

Vapor density > 1 (air = 1)

Relative density 1.61

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

914 °F (490 °C) estimated **Auto-ignition temperature** 

**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

reactions

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.

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

products

## 11. Toxicological information

# Information on likely routes of exposure

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.

Material name: Cable Clean® RD™

SDS US

No. 02152 (Item# 1003232) Version #: 04 Revision date: 09-13-2017 Issue date: 01-22-2015

Causes serious eye irritation. Eye contact

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.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Skin irritation. May

cause redness and pain. Edema. Jaundice.

#### Information on toxicological effects

**Acute toxicity** Narcotic effects.

**Test Results** Components **Species** 

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

**Acute** 

**Dermal** 

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat 14374 ppm, 4 hours

Oral

LD50 Rat 4260 mg/kg

tetrachloroethylene (CAS 127-18-4)

**Acute Dermal** 

LD50 Rabbit > 3228 mg/kg

Oral

LD50 Rat 2629 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eve irritation.

Respiratory sensitization Not a respiratory sensitizer.

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

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

n-propyl bromide (CAS 106-94-5) 2B Possibly carcinogenic to humans. tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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.

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

single exposure

Aspiration hazard

Specific target organ toxicity -

repeated exposure exposure.

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

May cause damage to organs (kidney, liver, nervous system) through prolonged or repeated

damage to organs through prolonged or repeated exposure.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

No. 02152 (Item# 1003232) Version #: 04 Revision date: 09-13-2017 Issue date: 01-22-2015

Not an aspiration hazard.

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

Components **Species Test Results** 

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

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 67.3 mg/l. 96 hours

tetrachloroethylene (CAS 127-18-4)

Aquatic

LC50 Fish Rainbow trout, donaldson trout 4.73 - 5.27 mg/l, 96 hours

(Oncorhynchus mykiss)

## Persistence and degradability

**Hydrolysis** 

Half-life (Hydrolysis)

n-propyl bromide 26 days

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

n-propyl bromide 2.1 tetrachloroethylene 2.88

**Bioconcentration factor (BCF)** 

n-propyl bromide 23

No data available. Mobility in soil

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

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

licensed waste disposal site. 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

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

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

Transport hazard class(es)

Class 6.1(PGIII)

Subsidiary risk 6.1 Label(s) Packing group Ш

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

IB3, T7, TP1, TP28 Special provisions

Packaging exceptions 153 203 Packaging non bulk Packaging bulk 241

IATA

**UN** number

**UN proper shipping name** Toxic liquid, organic, n.o.s. (tetrachloroethylene, n-propyl bromide)

Transport hazard class(es)

Class 6.1(PGIII)

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

Subsidiary risk Ш Packing group **ERG Code** 6L

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN2810 **UN** number

**UN** proper shipping name Transport hazard class(es) TOXIC LIQUID, ORGANIC, N.O.S. (tetrachloroethylene, n-propyl bromide), Limited Quantity

Class 6.1(PGIII)

Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant No. F-A. S-A **EmS** 

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)

Not regulated.

#### SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

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

n-propyl bromide (CAS 106-94-5) tetrachloroethylene (CAS 127-18-4)

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

tetrachloroethylene (CAS 127-18-4) Listed.

**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)

Not regulated. Food and Drug

Administration (FDA)

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

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

Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance

### **US** state regulations

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

n-propyl bromide (CAS 106-94-5) tetrachloroethylene (CAS 127-18-4)

## 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

n-propyl bromide (CAS 106-94-5) tetrachloroethylene (CAS 127-18-4)

#### **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

n-propyl bromide (CAS 106-94-5) Listed: August 5, 2016 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)

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin isopropyl bromide (CAS 75-26-3)

Listed: May 31, 2005

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

51.100(s))

Z 70

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

**Consumer products** 

This product is regulated as a Single Purpose Degreaser. This product is not compliant to be sold for use in California. This product is compliant in all other states.

VOC content (CA) 2 % VOC content (OTC) 2 %

### **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)	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

Country(s) or region Inventory name On inventory (yes/no)\*

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

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

Issue date01-22-2015Revision date09-13-2017Prepared byAllison Yoon

Version # 04

Further information CRC # 474B/1002470

HMIS® ratings Health: 2\*

Flammability: 0 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings

country(s).



**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's 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, Inc..

**Revision Information** Product and Company Identification: Product Codes

Hazard(s) identification: Hazard statement

Composition/information on ingredients: Component information

Handling and storage: Precautions for safe handling Exposure controls/personal protection: Hand protection

Toxicological Information: Toxicological Data Regulatory information: Consumer products

Other information, including date of preparation or last revision: Further information

GHS: Classification