

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Cable Clean® RD™

Other means of identification

Product code 02150

Recommended use Cable cleaner Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

885 Louis Dr. **Address** 

Warminster, PA 18974 US

Telephone

**General Information** 215-674-4300 **Technical** 800-521-3168

**Assistance** 

800-272-4620 **Customer Service** 24-Hour Emergency 800-424-9300 (US)

703-527-3887 (International) (CHEMTREC) Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Gases under pressure Compressed gas **Health hazards** Skin corrosion/irritation Category 2 Carcinogenicity

Category 1B Reproductive toxicity Category 1B

Category 3 narcotic effects Specific target organ toxicity, single exposure

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

Contains gas under pressure; may explode if heated. Causes skin irritation. May cause **Hazard statement** 

> drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. May cause damage to organs (liver, kidneys) through prolonged or repeated exposure. Toxic to aquatic life

Category 2

with long lasting effects.

**Precautionary statement** Prevention

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. Do not breathe gas. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off Response

> 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.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place. 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

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**

Chemical name Common name and synonyn		CAS number %	
Tetrachloroethylene	Perchloroethylene	127-18-4	90 - 100
Carbon dioxide		124-38-9	1 - 3
n-Propyl bromide		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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Get medical attention if irritation develops and persists.

If ingestion of a large amount does occur, call a poison control center immediately. Rinse mouth. Ingestion

Do not induce vomiting without advice from poison control center.

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

**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

Symptoms may be delayed.

treatment needed 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

Provide general supportive measures and treat symptomatically. Keep victim under observation.

sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

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.

General fire hazards Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

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## 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. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not breathe gas. Emergency personnel need self-contained breathing equipment. 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. 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. 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. 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. 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. Do not breathe mist or vapor. Do not breathe gas. 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. Use only in well-ventilated areas. 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

Level 1 Aerosol.

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

#### Occupational exposure limits

Components	Contaminants (29 CFR 1910.10 Type	, Value	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 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 Value	s		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
n-Propyl bromide (CAS 106-94-5)	TWA	0.1 ppm	
Tetrachloroethylene (CAS 127-18-4)	STEL	100 ppm	
,	TWA	25 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	

## **Biological limit values**

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.

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 Colorless.
Odor Irritating.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -166 °F (-110 °C) estimated Initial boiling point and boiling 159.8 °F (71 °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

(%)

3.8 % estimated

Flammability limit - upper

(%)

8 % estimated

Vapor pressure 1278.5 hPa estimated

Vapor density5.76 (air = 1)Relative density1.61 estimatedSolubility (water)Negligible.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature

914 °F (490 °C) estimated

Decomposition temperatureNot available.Viscosity (kinematic)Not available.Percent volatile97.8 % 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. 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

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

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.

# Information on toxicological effects

Acute toxicity Narcotic effects.

Product	Species	Test Results
Cable Clean® RD™		
Acute		
<i>Dermal</i> LD50	Rabbit	3260.5027 mg/kg estimated
Inhalation LC50	Rat	20.8661 mg/l, 4 Hours estimated
<i>Oral</i> LD50	Rat	2703.5156 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

Direct contact with eyes may cause temporary 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

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.

**Species** 

single exposure

**Product** 

Specific target organ toxicity -

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

**Test Results** 

repeated exposure

Not available. **Aspiration hazard** 

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

damage to organs through prolonged or repeated exposure.

# 12. Ecological information

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

n-Propyl bromide (CAS	106-94-5)	<u> </u>	<u> </u>
Components		Species	Test Results
Fish	LC50	Fish	19.4397 mg/l, 96 hours estimated
Aquatic			
Cable Clean® RD™			

**Aquatic** 

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

Tetrachloroethylene (CAS 127-18-4)

Aquatic

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

(Oncorhynchus mykiss)

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

n-Propyl bromide 2.1 Tetrachloroethylene 2.88

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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 This material and its container must be disposed of as hazardous waste. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

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

F002: Waste Tetrachloroethylene - Spent halogenated solvent

D039: Waste Tetrachloroethylene

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

#### 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

UN1950 **UN number** 

**UN proper shipping name** Aerosols, poison, Limited Quantity, MARINE POLLUTANT (Tetrachloroethylene)

Transport hazard class(es)

**Class** 2.2 Subsidiary risk 6.1(PGIII) Label(s) 2.2, 6.1 Not applicable. Packing group

**Environmental hazards** 

Marine pollutant Yes

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

Not available. Special provisions

306 Packaging exceptions None Packaging non bulk Packaging bulk None

IATA

**UN** number UN1950

Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III, Limited **UN proper shipping name** 

Quantity

Transport hazard class(es)

2.2 Class 6.1(PGIII) Subsidiary risk Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 2P

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

Other information

Passenger and cargo aircraft

Cargo aircraft only Allowed.

**IMDG** 

**UN** number UN1950

AEROSOLS, MARINE POLLUTANT **UN proper shipping name** 

Allowed.

Transport hazard class(es)

Class

6.1(PGIII) Subsidiary risk Packing group Not applicable.

**Environmental hazards** 

Marine pollutant Yes

Not available. **EmS** 

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

#### 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

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)**

n-Propyl bromide (CAS 106-94-5) Tetrachloroethylene (CAS 127-18-4)

# **CERCLA Hazardous Substances: Reportable quantity**

n-Propvl bromide (CAS 106-94-5) 100 LBS 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)

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

**SARA 302 Extremely** hazardous substance

#### **US** state regulations

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

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

No

Carbon dioxide (CAS 124-38-9) n-Propyl bromide (CAS 106-94-5) Tetrachloroethylene (CAS 127-18-4)

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

Carbon dioxide (CAS 124-38-9) n-Propvl bromide (CAS 106-94-5) Tetrachloroethylene (CAS 127-18-4)

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

Tetrachloroethylene (CAS 127-18-4) Carbon dioxide (CAS 124-38-9) 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.

Listed: December 7, 2004

## 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)

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

Consumer products Not regulated 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

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

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

Issue date10-27-2014Revision date12-10-2014Prepared byAllison Cho

Version # 02

Further information CRC # 474B-C
HMIS® ratings Health: 2\*
Flammability: 0
Physical bazard: 0

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



#### **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.

Yes

<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).