



# CRC® XT-2000™ Precision Cleaner, 340 g

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)  
Issue date: 2025-07-14 Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Trade name : CRC® XT-2000™ Precision Cleaner, 340 g  
Product code : 1006135  
Part number : 72155

#### 1.2. Recommended use and restrictions on use

Recommended use : Electronics cleaner  
Restrictions on use : None known

#### 1.3. Supplier

##### Manufactured or sold by:

CRC Canada Co.  
83 Galaxy Blvd.  
Unit 35 - 37  
Toronto, ON M9W 5X6  
Canada  
T 416-847-7750  
[crcindustries.ca](http://crcindustries.ca)

#### 1.4. Emergency telephone number

Emergency number : 800-424-9300 (CHEMTREC)  
24-Hour Emergency

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Aerosol, Category 3	Pressurized container; may burst if heated.
Skin corrosion/irritation, Category 2	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	Causes serious eye irritation.
Specific target organ toxicity – Single exposure, Category 3, Narcosis	May cause drowsiness or dizziness.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation.
Aspiration hazard, Category 1	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment, Chronic Hazard, Category 3	Harmful to aquatic life with long lasting effects.

#### 2.2. GHS Label elements, including precautionary statements

##### GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : Pressurized container; may burst if heated  
May be fatal if swallowed and enters airways  
Causes skin irritation  
Causes serious eye irritation

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Precautionary statements (GHS CA) : May cause respiratory irritation  
May cause drowsiness or dizziness  
: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not pierce or burn, even after use.  
Avoid breathing vapors, spray, mist.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, eye and face protection.  
Wash hands thoroughly after handling.  
IF SWALLOWED: Immediately call a POISON CENTER or a doctor.  
Do NOT induce vomiting.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or a 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 or attention.  
IF ON SKIN: Wash with plenty of water.  
If skin irritation occurs: Get medical advice or attention.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Dispose of contents/container in accordance with local/regional/national regulations.

### 2.3. Other hazards

Other hazards which do not result in classification : When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.

### 2.4. Unknown acute toxicity (GHS CA)

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)-	HFE-347PCF2	CAS-No.: 406-78-0	30 – 40
1,1,1,2-Tetrafluoroethane	HFC-134A	CAS-No.: 811-97-2	30 – 40
Ethene, 1,2-dichloro-, (1E)-	trans-dichloroethylene	CAS-No.: 156-60-5	20 – 30
isopropyl alcohol	propan-2-ol	CAS-No.: 67-63-0	1 – 3
Dimethoxymethane	Dimethoxymethane	CAS-No.: 109-87-5	1 – 3

Comments : The exact percentage (concentration) of composition has been withheld as a trade secret.  
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
First-aid measures general	: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/effects after inhalation	: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Symptoms/effects after ingestion	: May cause mild irritation to the digestive tract. Aspiration may cause pulmonary edema and pneumonitis.

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water fog. Dry powder. Foam. Carbon dioxide.
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#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Do not use a heavy water stream.
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#### 5.3. Specific hazards arising from the hazardous product

Fire hazard	: When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
Explosion hazard	: Pressurized container may rupture when exposed to heat or flame.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

#### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition. Stop leak if safe to do so. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.
- Personal Precautions, Protective Equipment and Emergency Procedures : Wear appropriate protective equipment and clothing during clean-up.

#### 6.2. Methods and materials for containment and cleaning up

- For containment : Stop leak, if possible without risk. Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
- Additional Regulatory Information : Dispose of materials or solid residues at an authorized site.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Exposure to high temperature may cause can to burst. Do not use if spray button is missing or defective. Avoid contact with skin and eyes. Avoid breathing vapors, spray, mist. Use only outdoors or in a well-ventilated area. Maintain ventilation during use and until all vapors are gone. 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. Wear personal protective equipment. For product usage instructions, see the product label.
- Hygiene measures : 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. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Level 1 Aerosol. Store locked up. Store in a well-ventilated place. Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

isopropyl alcohol (67-63-0)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	2-Propanol (Isopropyl alcohol, isopropanol)
OEL TWA	492 mg/m <sup>3</sup>
	200 ppm
OEL STEL	984 mg/m <sup>3</sup>
	400 ppm

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<b>isopropyl alcohol (67-63-0)</b>	
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
VECD (OEL STEV)	400 ppm
VEMP (OEL TWAEV)	200 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Isopropanol (Isopropyl alcohol, 2-Propanol)
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWA	491 mg/m <sup>3</sup> 200 ppm
OEL STEL	984 mg/m <sup>3</sup> 400 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS repair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWA	200 ppm
OEL STEL	400 ppm
Notations and remarks	Eye & URT irr; CNS impair
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWA	491 mg/m <sup>3</sup> 200 ppm
OEL STEL	984 mg/m <sup>3</sup> 400 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS repair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025

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<b>isopropyl alcohol (67-63-0)</b>	
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWA	491 mg/m <sup>3</sup>
	200 ppm
OEL STEL	984 mg/m <sup>3</sup>
	400 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS repair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWAEV	200 ppm
	400 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	2-Propanol
OEL TWA	491 mg/m <sup>3</sup>
	200 ppm
OEL STEL	984 mg/m <sup>3</sup>
	400 ppm
Notations and remarks	TLV® Basis: Eye & URT irr; CNS repair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025

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<b>isopropyl alcohol (67-63-0)</b>	
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Isopropyl alcohol
OEL TWA	200 ppm
OEL STEL	400 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>Ethene, 1,2-dichloro-, (1E)- (156-60-5)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, all isomers (Acetylene dichloride)
OEL TWA	793 mg/m <sup>3</sup> 200 ppm
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, all isomers
OEL TWA	200 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, all isomers
OEL TWA	200 ppm
OEL STEL	250 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, all isomers
OEL TWA	200 ppm
OEL STEL	250 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, All isomers
OEL TWAEV	200 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	1,2-Dichloroethylene, all isomers
OEL TWA	200 ppm

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<b>Ethene, 1,2-dichloro-, (1E)- (156-60-5)</b>	
OEL STEL	250 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>Dimethoxymethane (109-87-5)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Methylal (Dimethoxymethane)
OEL TWA	3110 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Methylal (Dimethoxymethane)
VEMP (OEL TWAEV)	3110 mg/m <sup>3</sup>
	1000 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Dimethoxymethane (Methylal)
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Methylal
OEL TWA	3110 mg/m <sup>3</sup>
	1000 ppm
Notations and remarks	TLV® Basis: Eye irr; CNS impair
Regulatory reference	ACGIH 2025
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Methylal
OEL TWA	3110 mg/m <sup>3</sup>
	1000 ppm
Notations and remarks	TLV® Basis: Eye irr; CNS impair
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Methylal
OEL TWA	3110 mg/m <sup>3</sup>
	1000 ppm

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<b>Dimethoxymethane (109-87-5)</b>	
Notations and remarks	TLV® Basis: Eye irr; CNS impair
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Methylal (dimethoxy methane)
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Methylal (dimethoxy methane)
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Methylal
OEL TWAEV	1000 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Methylal
OEL TWA	3110 mg/m <sup>3</sup> 1000 ppm
Notations and remarks	TLV® Basis: Eye irr; CNS impair
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Methylal (dimethoxy methane)
OEL TWA	1000 ppm
OEL STEL	1250 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

<b>Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)- (406-78-0)</b>	
Occupational Exposure Limit	50 ppm (8-hour TWA) - Manufacturer Recommended Exposure Limit
Occupational Exposure Limit	150 ppm (Ceiling Exposure Limit) - US EPA (Non-emergency)

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.

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Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Wear protective gloves such as: Fluoroelastomer (FKM). Nitrile. Polyvinylalcohol (PVA)

#### Eye protection:

Wear safety glasses with side shields (or goggles).

#### Skin and body protection:

Wear suitable protective 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: mild
Melting point	: -105 °C (-157 °F) estimated
Freezing point	: -105 °C (-157 °F) estimated
Boiling point	: 42.3 °C (108.1 °F) estimated
Flammability (solid, gas)	: Not applicable
Explosion limits	: No data available
Flash point	: None (Setaflash)
Auto-ignition temperature	: 260 °C (500 °F) estimated
Decomposition temperature	: No data available
pH	: No data available
Viscosity, kinematic	: No data available
Solubility	: Water: Negligible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Vapor pressure	: No data available
Evaporation rate	: Fast
Density	: 1.29 estimated
Relative density	: No data available
Relative vapor density at 20°C	: No data available
Particle characteristics	: No data available

### 9.2. Additional Regulatory Information

No additional information available

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### SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Pressurized container: may burst if heated.
Possibility of hazardous reactions	: May mass explode in fire. Heating may cause a fire or explosion.
Conditions to avoid	: High temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride, hydrogen chloride, and possibly phosgene.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Carbon oxides (CO, CO <sub>2</sub> ). Halogenated compounds. Hydrogen chloride. Hydrogen fluoride. Phosgene. Sulfur oxides (SO <sub>x</sub> ).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>isopropyl alcohol (67-63-0)</b>	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 dermal rabbit	12800 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l

<b>Ethene, 1,2-dichloro-, (1E)- (156-60-5)</b>	
LD50 oral rat	1235 mg/kg Source: HSDB
LD50 dermal rabbit	> 5000 mg/kg Source: ECHA

<b>Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)- (406-78-0)</b>	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 24.61879 mg/l air Animal: rat, Animal sex: male, Guideline: other:

<b>1,1,1,2-Tetrafluoroethane (811-97-2)</b>	
LC50 Inhalation - Rat	359453.1 mg/kg Source: National Library of Medicine

<b>Dimethoxymethane (109-87-5)</b>	
LD50 oral rat	> 7.46 ml/kg Source: ECHA
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

<b>isopropyl alcohol (67-63-0)</b>	
IARC group	3 - Not classifiable

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Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: Not classified

<b>Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)- (406-78-0)</b>	
LOAEC (inhalation, rat, vapor, 90 days)	16.358 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
NOAEL (oral, rat, 90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapor, 90 days)	12.2685 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

<b>1,1,1,2-Tetrafluoroethane (811-97-2)</b>	
NOAEC (inhalation, rat, gas, 90 days)	50000 ppm Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects	: May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/effects after inhalation	: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Symptoms/effects after ingestion	: May cause mild irritation to the digestive tract. Aspiration may cause pulmonary edema and pneumonitis.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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<b>isopropyl alcohol (67-63-0)</b>	
LC50 - Fish [1]	9640 mg/l Source: ECHA
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
EC50 - Other aquatic organisms [1]	13299 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 1000 mg/l

<b>Ethene, 1,2-dichloro-, (1E)- (156-60-5)</b>	
LC50 - Fish [1]	135 mg/l Source: ECHA
EC50 - Crustacea [1]	220 mg/l Source: ECHA
EC50 72h - Algae [1]	36.36 mg/l Source: ECHA

<b>Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)- (406-78-0)</b>	
LC50 - Fish [1]	> 76 mg/l Test organisms (species): Cyprinus carpio
EC50 72h - Algae [1]	> 24 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 213 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

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<b>1,1,1,2-Tetrafluoroethane (811-97-2)</b>	
LC50 - Fish [1]	450 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 72h - Algae [1]	> 118 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 114 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
<b>Dimethoxymethane (109-87-5)</b>	
LC50 - Fish [1]	> 1000 mg/l Source: EHCA
EC50 - Crustacea [1]	> 1200 mg/l Test organisms (species): Daphnia magna
ErC50 algae	9120 mg/l Source: EHCA
EC50 72h - Algae [1]	9120 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	874.12 mg/l Test organisms (species): other:
NOEC chronic fish	450.281 mg/l Test organisms (species): other: Duration: '30 d'
NOEC (chronic)	150.5 mg/l Test organisms (species): Daphnia magna Duration: '30 d'

### 12.2. Persistence and degradability

<b>CRC® XT-2000™ Precision Cleaner, 340 g</b>	
Persistence and degradability	No data is available on the degradability of this product.

### 12.3. Bioaccumulative potential

<b>isopropyl alcohol (67-63-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC
<b>Ethene, 1,2-dichloro-, (1E)- (156-60-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.09 Source: ChemIDplus
<b>1,1,1,2-Tetrafluoroethane (811-97-2)</b>	
Partition coefficient n-octanol/water (Log Pow)	1.06 Source: International Chemical Safety Cards
<b>Dimethoxymethane (109-87-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	0 Source: ECHA

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : Not classified

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Regional waste regulation : Dispose of contents/container in accordance with local/regional/national regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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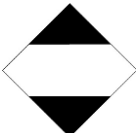
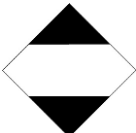

## Safety Data Sheet

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Sewage disposal recommendations	: Disposal must be done according to official regulations. Do not allow to enter sewers, surface or groundwater.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Contents under pressure. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Additional information	: Do not re-use empty containers.

### SECTION 14: Transport information

In accordance with TDG / IMDG / IATA

TDG	IMDG	IATA
<b>14.1. UN number</b>		
UN1950	1950	1950
<b>14.2. Proper Shipping Name</b>		
AEROSOLS (Limited quantity)	AEROSOLS (Limited quantity)	Aerosols, non-flammable (Limited quantity)
<b>14.3. Transport hazard class(es)</b>		
LTD QTY	LTD QTY	LTD QTY
		
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
No		

### 14.6. Special precautions for user

#### TDG

TDG Primary Hazard Classes	: 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gases
UN-No. (TDG)	: UN1950
TDG Special Provisions	: 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL. (2) Subsection (1) does not apply to self-defence spray.
Explosive Limit and Limited Quantity Index	: 1 L
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 75 L
Emergency Response Guide (ERG) Number	: 126

#### IMDG

Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
Special provision (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277

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Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

### IATA

Class (IATA)	: 2.2 - Gases : Non-flammable, Non-toxic
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provision (IATA)	: A98, A145, A167, A802
ERG code (IATA)	: 2L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

#### CRC® XT-2000™ Precision Cleaner, 340 g

All components of this product are listed on the DSL, NDSL, or are exempt from the inventory requirements.

Name	CAS-No.	Regulatory reference
isopropyl alcohol	67-63-0	Listed on the Canadian DSL (Domestic Substances List)
Ethene, 1,2-dichloro-, (1E)-	156-60-5	Listed on the Canadian DSL (Domestic Substances List)
Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)-	406-78-0	Listed on the Canadian DSL (Domestic Substances List)
1,1,1,2-Tetrafluoroethane	811-97-2	Listed on the Canadian DSL (Domestic Substances List)
Dimethoxymethane	109-87-5	Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

#### isopropyl alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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according to the Hazardous Products Regulation (WHMIS 2015)

### Ethene, 1,2-dichloro-, (1E)- (156-60-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Ethane, 1,1,2,2-tetrafluoro-1-(2,2,2-trifluoroethoxy)- (406-78-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 1,1,1,2-Tetrafluoroethane (811-97-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Dimethoxymethane (109-87-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.2. Other Regulatory Information

Volatile Organic Compound Concentration Limits for Certain Products Regulations: SOR/2021-268

VOC content	23.4 %
Product Category	Electronics cleaner that is designed to remove dirt, dust, moisture, flux or oxides from the internal components of electronic or precision equipment (such as circuit boards) or the internal components of electronic devices (such as radios, compact disc players, digital video disc players or computers)

## SECTION 16: Other information

Issue date	: 07-14-2025
Other information	: CRC # 1753524.
Author	Joshua Weir

Safety Data Sheet (SDS), Canada, CRC

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