CRC® On & Off Hull and Bottom Cleaner, 946 mL

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)
Issue date: 2025-08-26 Revision date: 2026-03-30 Supersedes: 2025-08-26 Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Trade name : CRC® On & Off Hull and Bottom Cleaner, 946 mL
Product code : 1006429
Part number : 76203

1.2. Recommended use and restrictions on use

Recommended use : Cleaner for fiberglass hulls
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

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)

Corrosive to metals, Category 1	May be corrosive to metals.
Acute toxicity (oral), Category 4	Harmful if swallowed.
Skin corrosion/irritation, Category 1B	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	Causes serious eye damage.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	May cause respiratory irritation.
Hazardous to the aquatic environment, Acute Hazard, Category 2	Toxic to aquatic life.
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) : May be corrosive to metals
Harmful if swallowed
Causes severe skin burns and eye damage
May cause respiratory irritation

Precautionary statements (GHS CA) : Do not eat, drink or smoke when using this product.
Do not breathe vapors, fume.
Keep only in original packaging.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye and face protection.
Wash hands thoroughly after handling.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or a doctor.
Absorb spillage to prevent material-damage.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in a corrosion resistant container with a resistant inner liner.
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 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	%
Water	-	CAS-No.: 7732-18-5	60 – 80
Hydrochloric acid	Hydrogen chloride	CAS-No.: 7647-01-0	15 – 40
Phosphoric acid	Orthophosphoric acid	CAS-No.: 7664-38-2	5 – 10
Ethanedioic acid	Oxalic acid	CAS-No.: 144-62-7	1 – 5
Alcohols, C12-15, ethoxylated	Ethoxylated alcohols (C=12-15)	CAS-No.: 68131-39-5	1 – 5

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.

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. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Chemical burns must be treated by a physician. Call a physician immediately.

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. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. 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. Provide general supportive measures and treat symptomatically. Show this safety data sheet to the doctor in attendance. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact : Burns. Burning pain and severe corrosive skin damage.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Symptoms/effects after ingestion : Harmful if swallowed. Burns.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

Reactivity in case of fire : When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen chloride and possibly phosgene.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	:	Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Collect spillage.
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	:	Do not get in eyes, on skin, or on clothing. Do not breathe vapors, fume. Wear personal protective equipment. 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. 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

Technical measures	:	Keep in a cool, well-ventilated place away from heat.
Storage conditions	:	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a cool, dry place out of direct sunlight.
Packaging materials	:	Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrochloric acid (7647-01-0)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	3 mg/m³
	2 ppm
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Hydrogen chloride
Plafond (OEL C)	2 ppm
Notations and remarks	RP

Hydrochloric acid (7647-01-0)	
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Notations and remarks	TLV® Basis: Irritation; Corrosion. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Notations and remarks	URT irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Notations and remarks	TLV® Basis: Irritation; Corrosion. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Notations and remarks	TLV® Basis: Irritation; Corrosion. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm

Hydrochloric acid (7647-01-0)	
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 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
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Notations and remarks	TLV® Basis: Irritation; Corrosion. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Hydrogen chloride
OEL C	2 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Phosphoric acid (7664-38-2)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Phosphoric acid
VECD (OEL STEV)	3 mg/m³
VEMP (OEL TWAEV)	1 mg/m³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³

Phosphoric acid (7664-38-2)	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	URT, eye, & skin irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)

Phosphoric acid (7664-38-2)	
Canada (Ontario) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWAEV	1 mg/m³
	3 mg/m³
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
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Notations and remarks	TLV® Basis: Eye, Skin & URT irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Phosphoric acid
OEL TWA	1 mg/m³
OEL STEL	3 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

Ethanedioic acid (144-62-7)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Oxalic acid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Oxalic acid
VECD (OEL STEV)	2 mg/m³
VEMP (OEL TWAEV)	1 mg/m³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³

Ethanedioic acid (144-62-7)	
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Oxalic acid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	URT, eye, & skin irr
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Oxalic acid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Oxalic acid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)

Ethanedioic acid (144-62-7)	
Canada (Ontario) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWAEV	1 mg/m³
	2 mg/m³
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
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Oxalic acid, anhydrous
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Notations and remarks	TLV® Basis: Eye, URT & Skin irr
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Oxalic acid
OEL TWA	1 mg/m³
OEL STEL	2 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Materials for protective clothing:
Wear appropriate chemical resistant clothing.

Hand protection:
Wear protective gloves such as: Latex. Neoprene.

Eye protection:
Safety glasses with side shields

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 acid gas 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	:	White
Odor	:	Acid
Melting point	:	< -17.8 °C (< 0 °F)
Freezing point	:	< -17.8 °C (< 0 °F)
Boiling point	:	85 °C (185 °F)
Flammability (solid, gas)	:	Not applicable
Explosion limits	:	No data available
Flash point	:	None
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	< 1
Viscosity, kinematic	:	No data available
Solubility	:	Water: Soluble
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Vapor pressure	:	No data available
Evaporation rate	:	Slow
Density	:	No data available
Relative density	:	1.16
Relative vapor density at 20°C	:	No data available
Particle characteristics	:	No data available

9.2. Additional Regulatory Information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen chloride and possibly phosgene.
Conditions to avoid	:	Temperatures above 50 °C or below 10 °C.
Incompatible materials	:	Bases. Strong oxidizing agents. Reducing agents. Metals. Amines. Bleach.
Hazardous decomposition products	:	Hydrogen chloride. Phosgene.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

CRC® On & Off Hull and Bottom Cleaner, 946 mL	
ATE CA (oral)	784.86 mg/kg body weight

Hydrochloric acid (7647-01-0)	
LD50 oral rat	238 – 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg Source: ECHA
LC50 Inhalation - Rat	8.3 mg/l Source: ECHA
LC50 Inhalation - Rat [ppm]	4701 ppm
LC50 Inhalation - Rat (Vapors)	8.3 mg/l

Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2000 mg/kg

Ethanedioic acid (144-62-7)	
LD50 oral rat	375 mg/kg Source: ECHA
LD50 dermal rabbit	20000 mg/kg body weight Animal: rabbit

Alcohols, C12-15, ethoxylated (68131-39-5)	
LD50 oral rat	2000 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1.6 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Water (7732-18-5)	
LD50 oral rat	90000 mg/kg
LD50 dermal	> 90000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns.
pH: < 1

Ethanedioic acid (144-62-7)	
pH	1.3

Alcohols, C12-15, ethoxylated (68131-39-5)	
pH	5.5 – 6.5 Source: Corporate Solution From Thomson Micromedex

Water (7732-18-5)	
pH	7

Serious eye damage/irritation : Causes serious eye damage.
pH: < 1

Ethanedioic acid (144-62-7)	
pH	1.3

Alcohols, C12-15, ethoxylated (68131-39-5)	
pH	5.5 – 6.5 Source: Corporate Solution From Thomson Micromedex

Water (7732-18-5)	
pH	7

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Hydrochloric acid (7647-01-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified.

Hydrochloric acid (7647-01-0)	
LOAEC (inhalation,rat,gas,90 days)	50 ppm
NOAEC (inhalation,rat,gas,90 days)	20 ppm

Phosphoric acid (7664-38-2)	
NOAEL (oral,rat,28 days)	250 mg/kg bw/day
NOAEL (oral,rat,90 days)	338 mg/kg bw/day

Ethanedioic acid (144-62-7)	
NOAEL (oral,rat,90 days)	≈ 63 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Alcohols, C12-15, ethoxylated (68131-39-5)	
NOAEL (oral,rat,90 days)	≥ 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard : Not classified

Phosphoric acid (7664-38-2)	
Viscosity, kinematic	16.38 mm²/s

Alcohols, C12-15, ethoxylated (68131-39-5)	
Viscosity, kinematic	16 mm²/s Temp.: '40°C' Parameter: 'kinematic viscosity (in mm²/s)'

Symptoms/effects after inhalation : May cause respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact : Burns. Burning pain and severe corrosive skin damage.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Symptoms/effects after ingestion : Harmful if swallowed. Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Hydrochloric acid (7647-01-0)	
LC50 - Fish [1]	3.25 – 3.5 mg/l Source: ECHA
EC50 - Crustacea [1]	4.92 mg/l Source: ECHA
EC50 - Other aquatic organisms [2]	4.5 mg/l
EC50 72h - Algae [1]	0.73 mg/l Source: ECHA

Phosphoric acid (7664-38-2)	
LC50 - Fish [1]	75.1 mg/l
EC50 - Crustacea [1]	> 376 mg/l
EC50 - Other aquatic organisms [1]	> 100 mg/l waterflea
EC50 72h - Algae [1]	77.9 mg/l
NOEC chronic fish	40 mg/l
NOEC chronic crustacea	1.02 mg/l

Ethanedioic acid (144-62-7)	
LC50 - Fish [1]	160 mg/l Source: EHCA
EC50 - Crustacea [1]	162.2 mg/l Source: ECHA
EC50 - Other aquatic organisms [1]	162.2 mg/l waterflea
EC50 72h - Algae [1]	19.83 – 21.35 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	18.39 – 19.92 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Alcohols, C12-15, ethoxylated (68131-39-5)	
LC50 - Fish [1]	1.03 mg/l Source: The ECOTOXicology database
EC50 - Crustacea [1]	0.302 mg/l Source: The ECOTOXicology database
EC50 - Other aquatic organisms [1]	0.88 mg/l Test organisms (species): other:
EC50 96h - Algae [1]	0.7 mg/l Source: ECOTOX

12.2. Persistence and degradability

CRC® On & Off Hull and Bottom Cleaner, 946 mL	
Persistence and degradability	No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Hydrochloric acid (7647-01-0)	
Partition coefficient n-octanol/water (Log Pow)	0.25 Source: ICSC

Phosphoric acid (7664-38-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.77

Ethanedioic acid (144-62-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.7 Source: ECHA

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

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.

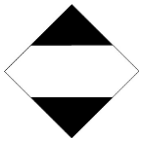
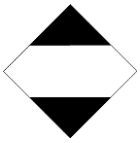
Sewage disposal recommendations : Do not allow to enter sewers, surface or groundwater.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with TDG / IMDG / IATA

TDG	IMDG	IATA
14.1. UN number		
UN3264	3264	3264
14.2. Proper Shipping Name		
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Limited quantity	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Limited quantity	Corrosive liquid, acidic, inorganic, n.o.s.
14.3. Transport hazard class(es)		
LTD QTY	LTD QTY	8
		
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
No		

14.6. Special precautions for user

TDG

TDG Primary Hazard Classes : 8 - Class 8 - Corrosives

UN-No. (TDG) : UN3264

TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	:	1 L
Excepted quantities (TDG)	:	E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	1 L
Emergency Response Guide (ERG) Number	:	154

IMDG

Class (IMDG)	:	8 - Corrosive substances
Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
Tank instructions (IMDG)	:	T11
Tank special provisions (IMDG)	:	TP2, TP27
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	:	B
Stowage and handling (IMDG)	:	SW2
Segregation (IMDG)	:	SGG1, SG36, SG49
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.

IATA

Class (IATA)	:	8 - Corrosives
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L
Special provision (IATA)	:	A3, A803
ERG code (IATA)	:	8L

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® On & Off Hull and Bottom Cleaner, 946 mL

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

Name	CAS-No.	Regulatory reference
Hydrochloric acid	7647-01-0	Listed on the Canadian DSL (Domestic Substances List)
Phosphoric acid	7664-38-2	Listed on the Canadian DSL (Domestic Substances List)
Ethanedioic acid	144-62-7	Listed on the Canadian DSL (Domestic Substances List)
Alcohols, C12-15, ethoxylated	68131-39-5	Listed on the Canadian DSL (Domestic Substances List)
Water	7732-18-5	Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Hydrochloric acid (7647-01-0)

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

Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Ethanedioic acid (144-62-7)

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

Alcohols, C12-15, ethoxylated (68131-39-5)

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

Water (7732-18-5)

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	> 0.5 %
Product Category	Not regulated.

SECTION 16: Other information

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Safety Data Sheet (SDS), Canada, CRC

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