

SAFETY DATA SHEET

1. Identification

Product identifier QD™ Electronic Cleaner - 311 g

Other means of identification

Product Code No. 75102 (Item# 1006344)

Recommended use Electronic cleaner
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.

Address 83 Galaxy Blvd
Unit 35 - 37

Toronto. ON M9W 5X6

Canada

Telephone

General Information 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC)
Website

www.crc-canada.ca

E-mail Support.CA@crcindustries.com

2. Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2B
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1
Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements

Environmental hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause

drowsiness or dizziness. Suspected of damaging fertility or the unborn child.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

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Response IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON

SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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.

Storage Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated

place. Do not expose to temperatures exceeding 50°C/122°F.

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

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
naphtha (petroleum), hydrotreated light		64742-49-0	45 - 70	
2-methylpentane		107-83-5	15 - 40	
carbon dioxide		124-38-9	3 - 7	
n-hexane		110-54-3	1 - 5	
n-pentane		109-66-0	1 - 5	

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.

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.

sheet to the doctor in attendance.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. 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.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.

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

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

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

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

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. Avoid breathing mist/vapors. 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

Stop leak if you can do so without risk. 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. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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. 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. 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. Avoid breathing mist/vapors. 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. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm	
	TWA	500 ppm	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
n-hexane (CAS 110-54-3)	TWA	50 ppm	
n-pentane (CAS 109-66-0)	TWA	1000 ppm	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Type	Value	
2-methylpentane (CAS 107-83-5)	STEL	3500 mg/m3	
		1000 ppm	
	TWA	1760 mg/m3	
		500 ppm	

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Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
naphtha (petroleum), nydrotreated light (CAS 54742-49-0)	TWA	1590 mg/m3
•		400 ppm
n-hexane (CAS 110-54-3)	TWA	176 mg/m3
		50 ppm
n-pentane (CAS 109-66-0)	TWA	1770 mg/m3
		600 ppm
Canada. British Columbia OELs. (Safety Regulation 296/97, as amer		s for Chemical Substances, Occupational Health and
Components	Туре	Value
2-methylpentane (CAS 107-83-5)	TWA	200 ppm
carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
n-hexane (CAS 110-54-3)	TWA	20 ppm
n-pentane (CAS 109-66-0)	TWA	1000 ppm
Canada. Manitoba OELs (Reg. 217	/2006, The Workplace Safety	And Health Act)
Components	Туре	Value
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
n-hexane (CAS 110-54-3)	TWA	50 ppm
n-pentane (CAS 109-66-0)	TWA	1000 ppm
Canada. Ontario OELs. (Control o Components	f Exposure to Biological or Ch Type	nemical Agents) Value
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm
	TWA	500 ppm
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
n-hexane (CAS 110-54-3)	TWA	50 ppm
n-pentane (CAS 109-66-0)	TWA	1000 ppm
Canada. Quebec OELs. (Ministry o	of Labor - Regulation respecti Type	ng occupational health and safety) Value
2-methylpentane (CAS	STEL	3500 mg/m3
	O I LL	5555 Hig/illo

1000 ppm 1760 mg/m3

TWA

Components	•	Type	•	J	-	health and safety) alue
					50	00 ppm
carbon dioxide (CAS 124-38-9)		STEL			54	1000 mg/m3
124-00-0)					30	0000 ppm
		TWA			90	000 mg/m3
					50	000 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)		TWA			15	590 mg/m3
					40	00 ppm
n-hexane (CAS 110-54-3)		TWA			17	'6 mg/m3
					50) ppm
n-pentane (CAS 109-66-0)		TWA			35	50 mg/m3
				12	20 ppm	
Canada. Saskatchewan O Components	ELs (Occupation	nal Hea Type	lth and Safety	Regulati		6, Table 21) alue
2-methylpentane (CAS 107-83-5)		15 mi	nute		10	000 ppm
		8 hou	r		50	00 ppm
carbon dioxide (CAS 124-38-9)		15 mi	nute		30	0000 ppm
		8 hou	r		50	000 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)		15 mi	nute		50	00 ppm
		8 hou	r		40	00 ppm
n-hexane (CAS 110-54-3)		15 mi	nute		62	2.5 ppm
		8 hour		50	50 ppm	
n-pentane (CAS 109-66-0)		15 mi	nute		75	50 ppm
		8 hou	r		60	00 ppm
ogical limit values						
ACGIH Biological Exposu						-
Components	Value		Determinant		ecimen	Sampling Time
n-hexane (CAS 110-54-3)	0.5 mg/l		2,5-Hexanedione, without hydrolysis) Urii	ne	*
* - For sampling details, plea	ase see the sour	ce docu	ment.			
osure guidelines						
Canada - Alberta OELs: S	_		_			
n-hexane (CAS 110-54 Canada - British Columbia	OELs: Skin de	signati	on			ugh the skin.
n-hexane (CAS 110-54-3) Canada - Manitoba OELs: Skin designation			Can be absorbed through the skin.			
n-hexane (CAS 110-54-3) anada - Ontario OELs: Skin designation			Danger of cutaneous absorption			
n-hexane (CAS 110-54 Canada - Quebec OELs: S	,		Car	be abso	rbed throu	ugh the skin.

Can be absorbed through the skin.

Can be absorbed through the skin.

n-hexane (CAS 110-54-3)

n-hexane (CAS 110-54-3)

Canada - Saskatchewan OELs: Skin designation

US ACGIH Threshold Limit Values: Skin designation

n-hexane (CAS 110-54-3)

Danger of cutaneous absorption

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: Nitrile. Neoprene. Viton/butyl.

Other Wear appropriate chemical resistant clothing. 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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. When using do not 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
Form
Color
Color
Colorless.

Odor
Alcoholic.

Odor threshold
PH
Not available.

Melting point/freezing point
Not available.

Initial boiling point and boiling

range

123 °F (50.6 °C) estimated

Flash point < 0 °F (< -17.8 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

1.1 % estimated

Flammability limit - upper

(%)

19 % estimated

Vapor pressure Not available.
Vapor density > 1 (air = 1)
Relative density 0.7 estimated

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 489.2 °F (254 °C) estimated

Decomposition temperatureNot available. **Viscosity**Not available.

Other information

Percent volatile 94.6 % estimated

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10. Stability and reactivity

ReactivityThe 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. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Irritation of eyes. Exposed individuals may experience eye tearing,

redness, and discomfort. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components Species Test Results

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

<u>Acute</u>

Dermal

LD50 Rat > 2000 mg/kg

Inhalation

Vapor

LC50 Rat > 5.2 mg/l, 4 hours

Oral

LD50 Rat > 5000 mg/kg

n-hexane (CAS 110-54-3)

Acute

Dermal

LD50 Rabbit > 1300 mg/kg

Oral

LD50 Rat 15840 mg/kg

n-pentane (CAS 109-66-0)

Acute

Inhalation

Vapor

LC50 Rat 364 mg/m3, 4 Hours

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Serious eye damage/eye

irritation

Causes skin irritation. Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Not classified.

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

n-hexane (CAS 110-54-3)

Aquatic Acute

Fish LC50 Fathead minnow (Pimephales promelas) 2500 µg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

 2-methylpentane
 3.21

 n-hexane
 3.9

 n-pentane
 3.39

Bioconcentration factor (BCF)

naphtha (petroleum), hydrotreated light n-hexane 501.187 n-pentane 171

Mobility in soil No data available.

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in

accordance with local/regional/national/international regulations.

Local disposal regulations

.

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

product

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

TDG

UN number UN1950

UN proper shipping name

Transport hazard class(es)

AEROSOLS, flammable, Limited Quantity

Class 2.1 Subsidiary risk -

Packing group Not applicable.

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

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

Material name: QD™ Electronic Cleaner - 311 g

Transport hazard class(es)

2.1 Class Subsidiary risk

Not applicable. Packing group

ERG Code 10L

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

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions. Cargo aircraft only

IMDG

UN number UN1950

UN proper shipping name

AEROSOLS, Limited Quantity

Transport hazard class(es)

2.1 Class Subsidiary risk

Not applicable. Packing group

Environmental hazards

Marine pollutant Yes, but exempt from the regulations.

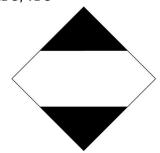
F-D, S-U **EmS**

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

IATA



IMDG; TDG



15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

carbon dioxide (CAS 124-38-9)

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

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Rotterdam Convention

Not applicable.

Kyoto protocol

carbon dioxide (CAS 124-38-9) Listed.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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

Taiwan Taiwan Chemical Substance Inventory (TCSI)

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

Yes

16. Other information

 Issue date
 05-04-2020

 Revision date
 01-13-2021

Version # 02

Further information CRC # 985/1002984

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 Canada Co..

Revision informationThis document has undergone significant changes and should be reviewed in its entirety.

^{*}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).