

SAFETY DATA SHEET

1. Identification

Product identifier Glass Cleaner - 510 g

Other means of identification

Product Code No. 14100 (Item# 1004837)

Recommended use Glass cleaner Recommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.

Address 83 Galaxy Blvd
Unit 35 - 37

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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 Gases under pressure Liquefied gas

Health hazards Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

long-term hazard

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention Observe good industrial hygiene practices. Avoid release to the environment.

Response Wash hands after handling.

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

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

Category 3

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
water		7732-18-5	80 - 100
liquefied petroleum gas		68476-86-8	3 - 7

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Chemical name	Common name and synonyms	CAS number	%
2-butoxyethanol		111-76-2	1 - 5
ethanol		64-17-5	1 - 5
ammonia		7664-41-7	0.1 - 1

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 Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eve contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation. Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

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

Special protective equipment and precautions for firefighters

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

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up 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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Avoid prolonged exposure. 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. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Contents under pressure. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight.

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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values Components	Туре	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Alberta OELs (Occupatio	_	
Components	Туре	Value
2-butoxyethanol (CAS 111-76-2)	TWA	97 mg/m3
		20 ppm
ammonia (CAS 7664-41-7)	STEL	24 mg/m3
		35 ppm
	TWA	17 mg/m3
		25 ppm
ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Canada. British Columbia OELs. (Safety Regulation 296/97, as amer		s for Chemical Substances, Occupational Health and
Components	Туре	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Manitoba OELs (Reg. 217 Components	7/2006, The Workplace Safety Type	And Health Act) Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Ontario OELs. (Control o	-	
Components	Type	Value
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
		1000 ppm
ethanol (CAS 64-17-5)	STEL	1000 ρριτί
Canada. Quebec OELs. (Ministry o		ng occupational health and safety) Value
ethanol (CAS 64-17-5) Canada. Quebec OELs. (Ministry of Components 2-butoxyethanol (CAS 111-76-2)	of Labor - Regulation respecti	ng occupational health and safety)
Canada. Quebec OELs. (Ministry of Components 2-butoxyethanol (CAS	of Labor - Regulation respecti Type	ng occupational health and safety) Value
Canada. Quebec OELs. (Ministry of Components 2-butoxyethanol (CAS	of Labor - Regulation respecti Type	ng occupational health and safety) Value 97 mg/m3

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Canada. Quebec OELs. (Ministry of Labor	r - Regulation respecting	occupational health and safety)
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Components	Туре	Value	
	TWA	17 mg/m3	
		25 ppm	
ethanol (CAS 64-17-5)	TWA	1880 mg/m3	
		1000 ppm	

Canada, Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Туре	Value	
2-butoxyethanol (CAS 111-76-2)	15 minute	30 ppm	
	8 hour	20 ppm	
ammonia (CAS 7664-41-7)	15 minute	35 ppm	
	8 hour	25 ppm	
ethanol (CAS 64-17-5)	15 minute	1250 ppm	
	8 hour	1000 ppm	

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

^{* -} For sampling details, please see the source document.

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.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear protective gloves such as: Nitrile. Rubber. Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

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

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 Clear.

Ammoniacal. Odor **Odor threshold** Not available.

10.5 pН

Melting point/freezing point Not available.

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Initial boiling point and boiling

range

212 °F (100 °C) estimated

Flash point None. **Evaporation rate** Slow.

Material name: Glass Cleaner - 510 g SDS CANADA Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

(%)

Flammability limit - upper

25 % estimated

(%)

Vapor pressure 280.3 hPa estimated

Vapor density > 1 (air = 1)Relative density 0.97 estimated

Solubility(ies)

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

(n-octanol/water)

446 °F (230 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available.

Other information

99.6 % estimated Percent volatile

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Aldehydes. Ketones. Organic acids.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and Skin contact

prolonged. These effects have not been observed in humans.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not classified. **Acute toxicity**

Species Test Results Components

2-butoxyethanol (CAS 111-76-2)

Acute

Dermal

LD50 Rabbit 220 mg/kg

Oral LD50

Rat 470 mg/kg

ammonia (CAS 7664-41-7)

Acute

Inhalation

LC50 Rat 2000 ppm, 4 Hours

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Components	Species	Test Results
Oral		
LD50	Rat	350 mg/kg
ethanol (CAS 64-17-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	20 g/kg
Inhalation		
LC50	Rat	8000 mg/l, 4 hours
Oral		
LD50	Rat	6200 mg/kg
		6.2 g/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-butoxyethanol (CAS 111-76-2)

Irritant

Respiratory sensitization This product

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

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

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2-butoxyethanol (CAS	S 111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
ammonia (CAS 7664	-41-7)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours
ethanol (CAS 64-17-	5)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	5012 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 10000 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential

Material name: Glass Cleaner - 510 g No. 14100 (Item# 1004837) Version #: 01 Issue date: 07-29-2019 Partition coefficient n-octanol / water (log Kow)

0.83 2-butoxyethanol ethanol -0.31

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 instructions Contents under pressure. Do not puncture, incinerate or crush. Empty container can be recycled.

Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of

contents/container in accordance with local/regional/national regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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

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

disposal.

14. Transport information

TDG

UN1950 **UN** number

UN proper shipping name Transport hazard class(es) AEROSOLS, non-flammable, Limited Quantity

Class 2.2

Subsidiary risk

Packing group Not applicable.

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

Special provisions

IATA

UN number UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, non-flammable, Limited Quantity

Class 2.2 Subsidiary risk

Not applicable. Packing group

ERG Code 2L

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

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

2.2 Class Subsidiary risk

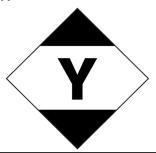
Not applicable. Packing group

Environmental hazards

Marine pollutant No. F-D. S-U **EmS**

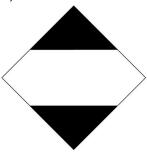
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA



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IMDG; TDG



15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

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)	No
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)	Yes

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

16. Other information

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Version # 01

Further information CRC # 411A/1002393

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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 Canada Co.'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 information

Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Handling and storage: Precautions for safe handling Physical & Chemical Properties: Multiple Properties

Ecological Information: Ecotoxicity

Transport Information: Material Transportation Information

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