

# SAFETY DATA SHEET

# 1. Identification

Product identifier Glass Cleaner

Other means of identification

**Product code** No. 73100 (Item# 1006176)

**Recommended use** Glass cleaner **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.

Address 2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

Canada

Telephone

**General Information** 905-670-2291

**24-Hour Emergency** 800-424-9300 (Canada) **(CHEMTREC)** 703-527-3887 (International)

Website www.crc-canada.ca

E-mail Support.CA@crcindustries.com

# 2. Hazard(s) 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

Category 3

#### 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.

Other hazards None known.

## 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
2-butoxyethanol		111-76-2	1 - 5
ethanol		64-17-5	1 - 5

Material name: Glass Cleaner SDS CANADA

No. 73100 (Item# 1006176) Version #: 01 Issue date: 08-02-2016

Chemical name	Common name and synonyms	CAS number	%
ammonia		7664-41-7	0.1 - 1
methanol		67-56-1	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.

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

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

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDirect contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate Provide ger

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

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

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 rupture when exposed to heat or flame.

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. 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.

Material name: Glass Cleaner SDS CANADA

## Oc

upational 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
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Alberta OELs (Occupational I		• •
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
methanol (CAS 67-56-1)	STEL	328 mg/m3
medianer (exic ex ee r)	0.22	250 ppm
	TWA	262 mg/m3
	TVVA	200 ppm
Oanada Buitiah Oakunhia OFLa (Oaa		• •
Canada. British Columbia OELs. (Occi Safety Regulation 296/97, as amended		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
animenia (en en reen rivi)	TWA	25 ppm
ethanol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
methanol (CAS 01-50-1)	TWA	200 ppm
		* *
Canada. Manitoba OELs (Reg. 217/200 Components	Type	Value
<u> </u>		
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
(  -/040-07-50-4)	OTEL	050

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	
methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

250 ppm

200 ppm

**STEL** 

TWA

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Material name: Glass Cleaner SDS CANADA

methanol (CAS 67-56-1)

Components	Type	ting the Quality of the Work Environment) 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	
methanol (CAS 67-56-1)	STEL	328 mg/m3	
		250 ppm	
	TWA	262 mg/m3	
		200 ppm	

#### **Biological limit values**

<b>ACGIH</b>	Riological	<b>Exposure</b>	Indicas
ACGIN	Diviogical	Exposure	muices

Components	Value	Determinant	Specimen	Sampling Time
2-butoxyethanol (CAS	200 mg/g	Butoxyacetic	Creatinine in	*
111-76-2)		acid (BAA),	urine	
		with hydrolysis		
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

Canada - Alberta OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

methanol (CAS 67-56-1)

Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

methanol (CAS 67-56-1) Can be absorbed through the skin.

# 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

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

Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Rubber.

Other Wear appropriate chemical resistant clothing.

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.

Material name: Glass Cleaner SDS CANADA

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. **Form** Aerosol. Color Clear.

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

10.5 pН

Melting point/freezing point Not available.

Initial boiling point and boiling

range

212 °F (100 °C) estimated

None (Tag Closed Cup)

**Evaporation rate** Slow.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

Flash point

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) Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 

446 °F (230 °C) estimated

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

Other information

Percent volatile 99.6 % estimated

# 10. Stability and reactivity

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

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

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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

Strong oxidizing agents. Incompatible materials

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.

Material name: Glass Cleaner SDS CANADA Information on toxicological effects

Not classified. Acute toxicity

**Test Results** Components **Species** 

2-butoxyethanol (CAS 111-76-2)

**Acute** Oral

1300 mg/kg Rat LD50

ammonia (CAS 7664-41-7)

**Acute** Inhalation

LC50 Rat 2000 ppm, 4 Hours

Oral

LD50 Rat 350 mg/kg

ethanol (CAS 64-17-5)

**Acute** 

**Dermal** 

LD50 Rabbit 20 g/kg

Inhalation

LC50 Rat 8000 mg/l, 4 hours

Oral

LD50 Rat 6.2 g/kg

Skin corrosion/irritation Serious eye damage/eye

Prolonged skin contact may cause temporary irritation.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

2-butoxyethanol (CAS 111-76-2) Irritant

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

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

2-butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

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

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 111-76-2)

**Aquatic** 

Acute

Crustacea EC50 Water flea (Daphnia magna) 1550 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout >= 1000 mg/l, 96 hours

(Oncorhynchus mykiss)

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**Test Results** Components **Species** 

ammonia (CAS 7664-41-7)

**Aquatic** 

LC50 Chinook salmon (Oncorhynchus 0.43 - 0.47 mg/l, 96 hours Fish

tshawytscha)

ethanol (CAS 64-17-5)

Aquatic

Acute

Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours LC50 Fish Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

methanol (CAS 67-56-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-butoxyethanol 0.81, log Pow

ethanol -0.31methanol -0.77

Mobility in soil No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal of waste from residues / unused products 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.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code Not regulated.

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.

## 14. Transport information

**TDG** 

**UN** number UN1950

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

Class 2.2 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

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

Special provisions 80

**IATA** 

UN1950 **UN** number

**UN proper shipping name** Aerosols, non-flammable, Limited Quantity

Transport hazard class(es) Class

2.2 Subsidiary risk

Packing group Not applicable.

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

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

Material name: Glass Cleaner SDS CANADA

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

Other information

Passenger and cargo Allov

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Not established.

**IMDG** 

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

Class 2

Subsidiary risk -

Packing group Not applicable.

**Environmental hazards** 

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

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

# 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.

## Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Inventory name

methanol (CAS 67-56-1)

# **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.

Country(s) or region

#### **International Inventories**

Australia

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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

Australian Inventory of Chemical Substances (AICS)

Material name: Glass Cleaner SDS CANADA

Yes

On inventory (yes/no)\*

Country(s) or region Inventory name On inventory (yes/no)\*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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

**Issue date** 08-02-2016

Version # 01

Further information CRC # 411A/1002393

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.

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