CRC

SAFETY DATA SHEET

1. Identification

Product identifier HydroForce® Glass Cleaner

Other means of identification

Product code 74411

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

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company nameCRC Canada Co.Address2-1246 Lorimar Dr.

Mississauga, Ontario L5S 1R2

Canada

Telephone 905-670-2291 Website www.crc-canada.ca

E-mail Support.CA@crcindustries.com

Emergency phone number 24-Hour Emergency 800-424-9300 (Canada)

(CHEMTREC) 703-527-3887 (International)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture does not meet the criteria for classification.

Precautionary statement

Prevention Avoid release to the environment. **Response** Wash hands after handling.

Storage Store away from incompatible materials.

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	90 - 100	
2-butoxyethanol		111-76-2	1 - 3	
isopropyl alcohol		67-63-0	1 - 3	
ammonia		7664-41-7	< 0.3	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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

Material name: HydroForce® Glass Cleaner 74411 Version #: 01 Issue date: 08-22-2016

Ingestion

Most important

symptoms/effects, acute and delayed

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

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

None known.

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

During fire, gases hazardous to health may be formed.

Use fire-extinguishing media appropriate for surrounding materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

General fire hazards

Move containers from fire area if you can do so without risk.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

emergency procedures

Methods and materials for
containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

This product is miscible in water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Prevent entry into waterways, sewer, basements or confined areas.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. For product usage instructions, please see the product

Value

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store away from incompatible materials (see Section 10 of the

SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH	Threshold	Limit	Values
Component	s		

	.) 0	
2-butoxyethanol (CAS 111-76-2)	TWA	20 ppm
ammonia (CAS 7664-41-7)	STEL	35 ppm
	TWA	25 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
•	TWA	200 ppm

Type

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

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	

Material name: HydroForce® Glass Cleaner

SDS CANADA

Components	Туре	•	Va	llue
isopropyl alcohol (CAS	STEI	-		ppm 4 mg/m3
67-63-0)			40	0.777
	TWA			0 ppm 2 mg/m3
	1 **/			0 ppm
Canada. British Columbia Safety Regulation 296/97		Exposure Limits	for Chemical Su	bstances, Occupational Health and
Components	Туре	•	Va	llue
2-butoxyethanol (CAS 111-76-2)	TWA		20	ppm
ammonia (CAS 7664-41-7)				ppm
	TWA			ppm
isopropyl alcohol (CAS 67-63-0)	STEI			0 ppm
	TWA			0 ppm
Canada. Manitoba OELs (Components	Reg. 217/2006, The Wo: Type	-	-	ilue
-				
2-butoxyethanol (CAS 111-76-2)	TWA			ppm
ammonia (CAS 7664-41-7)				ppm
	TWA			ppm
isopropyl alcohol (CAS 67-63-0)	STEI		40	0 ppm
	TWA		20	0 ppm
Canada. Ontario OELs. (0	Control of Exposure to	Biological or Che	emical Agents)	
Components	Туре	•	Va	llue
2-butoxyethanol (CAS 111-76-2)	TWA		20	ppm
ammonia (CAS 7664-41-7)) STEI	=	35	ppm
	TWA		25	ppm
isopropyl alcohol (CAS 67-63-0)	STEI	-	40	0 ppm
,	TWA		20	0 ppm
Canada. Quebec OELs. (I	-	•	•	•
Components	Туре	•	Va	llue
2-butoxyethanol (CAS 111-76-2)	TWA		97	mg/m3
,			20	ppm
ammonia (CAS 7664-41-7)) STEI	_	24	mg/m3
			35	ppm
	TWA		17	mg/m3
			25	ppm
isopropyl alcohol (CAS 67-63-0)	STEI	_	12	30 mg/m3
				0 ppm
	TWA			3 mg/m3
			40	0 ppm
ogical limit values				
ACGIH Biological Exposu Components	ure Indices Value	Determinant	Specimen	Sampling Time
- cimpononto				

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time	
isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*	

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

Exposure guidelines No exposure standards allocated.

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.

General ventilation normally adequate.

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. 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

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.
Color Light blue.
Odor Ammoniacal.
Odor threshold Not available.

pH 10.6

Melting point/freezing point 30 °F (-1.1 °C)

Initial boiling point and boiling

range

179.6 °F (82 °C) estimated

Flash point None (Tag Closed Cup)

Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.3 % estimated

(%)

Flammability limit - upper

25 % estimated

(%)

Explosive limit - lower (%) 1.3 % estimated
Explosive limit - upper (%) 25 % estimated

Vapor pressure 23.1 hPa estimated

Vapor density > 1 (air = 1)

Relative density 0.99

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient Not available.

(n-octanol/water)

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

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

Other information

Percent volatile 99.8 % estimated

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 Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

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

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

Acute toxicity Not classified.

Product Species Test Results

HydroForce® Glass Cleaner

Acute Dermal

LD50 Rabbit 92426 mg/kg estimated

Inhalation

LC50 Rat 114 mg/l, 4 hours estimated

Oral

LD50 Rat 44850 mg/kg estimated

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye 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 Not a respiratory sensitizer.

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

Germ cell mutagenicityNo 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.

ACGIH Carcinogens

2-butoxyethanol (CAS 111-76-2)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

isopropyl alcohol (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Material name: HydroForce® Glass Cleaner 74411 Version #: 01 Issue date: 08-22-2016

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

Canada - Manitoba OELs: carcinogenicity

2-BUTOXYETHANOL (EGBE) (CAS 111-76-2)

Confirmed animal carcinogen with unknown relevance to humans. Not classifiable as a human carcinogen.

2-PROPANOL (CAS 67-63-0)

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 -

Not classified.

repeated exposure

Not an aspiration hazard.

Aspiration hazard Chronic effects

May be harmful if absorbed through skin.

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

prolonged. These effects have not been observed in humans.

This product has no known adverse effect on human health. **Further information**

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
2-butoxyethanol (CAS	3 111-76-2)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1550 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	>= 1000 mg/l, 96 hours
ammonia (CAS 7664-	41-7)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours
isopropyl alcohol (CA	S 67-63-0)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	7550 - 13299 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	9640 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

Partition coefficient n-octanol / water (log Kow)

2-butoxyethanol 0.81, log Pow

Bioconcentration factor (BCF)

isopropyl alcohol 3.16

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal of waste from residues / unused products

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.

Material name: HydroForce® Glass Cleaner 74411 Version #: 01 Issue date: 08-22-2016

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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

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)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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).

Material name: HydroForce® Glass Cleaner 74411 Version #: 01 Issue date: 08-22-2016

16. Other information

Issue date 08-22-2016

Version # 0

Further information CRC # 434D

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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.

Material name: HydroForce® Glass Cleaner 74411 Version #: 01 Issue date: 08-22-2016