

# SAFETY DATA SHEET

## 1. Identification

Product identifier	HydroForce® Glass Cleaner
Other means of identification	
Product code	14411, 14413, 14427
Recommended use	Glass cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	/Distributor information
Manufactured or sold by:	
Company name Address	CRC Industries, Inc. 885 Louis Dr. Warminster, PA 18974 US
Telephone	
General Information	215-674-4300 800-521-3168
Technical Assistance	000-521-5100
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International) www.crcindustries.com
Website	www.crcindustnes.com
2. Hazard(s) identification	1
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	Not available.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	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. If you experience any symptoms listed on this label, increase ventilation or leave the area. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise	None known.

classified (HNOC)

# 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

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures			
Inhalation	If breathing is difficult, remove to fresh air and Call a physician if symptoms develop or persis	keep at rest in a position comfortable for breathing. t.	
Skin contact	Rinse skin with water/shower. Get medical atte	ention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritat	ion develops and persists.	
ngestion	Rinse mouth. If ingestion of a large amount do	es occur, call a poison control center immediately.	
Most important symptoms/effects, acute and delayed	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 protect themselves.	e material(s) involved, and take precautions to	
5. Fire-fighting measures			
Suitable extinguishing media	Use fire-extinguishing media appropriate for su	irrounding materials.	
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pro	otective clothing must be worn in case of fire.	
Fire-fighting equipment/instructions	Move containers from fire area if you can do so	o without risk.	
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peoplow areas. Do not touch damaged containers of protective clothing. For personal protection, se		
Methods and materials for	This product is miscible in water.		
containment and cleaning up		without risk. Dike the spilled material, where this is preading. Absorb in vermiculite, dry sand or earth ecovery, flush area with water.	
	Small Spills: Wipe up with absorbent material ( remove residual contamination.	e.g. cloth, fleece). Clean surface thoroughly to	
	Never return spills to original containers for re- Prevent entry into waterways, sewer, basemer	use. For waste disposal, see section 13 of the SDS its or confined areas.	
Environmental precautions	Avoid discharge into drains, water courses or o	onto the ground.	
7. Handling and storage			
Precautions for safe handling	Do not get in eyes, on skin, or on clothing. For label.	product usage instructions, please see the product	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store of the SDS).	away from incompatible materials (see Section 10	
8. Exposure controls/pers	sonal protection		
Occupational exposure limits			
US. OSHA Table Z-1 Limits 1 Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
Ammonia (CAS 7664-41-7)	PEL	50 ppm 35 mg/m3 50 ppm	

50 ppm

Components	1	Гуре		,	Value
Isopropyl alcohol (CAS 67-63-0)	F	PEL		9	980 mg/m3
,				4	400 ppm
US. ACGIH Threshold Lim	nit Values				
Components	I	Гуре			Value
2-Butoxyethanol (CAS 111-76-2)	7	TWA		:	20 ppm
Ammonia (CAS 7664-41-7)	S	STEL		:	35 ppm
	٦	TWA		:	25 ppm
Isopropyl alcohol (CAS	S	STEL		4	400 ppm
67-63-0)	-	TWA			200 ppm
US. NIOSH: Pocket Guide					
Components		Гуре		,	Value
2-Butoxyethanol (CAS 111-76-2)	٦	TWA			24 mg/m3
					5 ppm
Ammonia (CAS 7664-41-7)	e e e e e e e e e e e e e e e e e e e	STEL			27 mg/m3
	_	_			35 ppm
		TWA			18 mg/m3
Isopropyl alcohol (CAS	S	STEL			25 ppm 1225 mg/m3
67-63-0)					500 ppm
	٦	TWA			980 mg/m3
				4	400 ppm
ogical limit values					
ACGIH Biological Exposu	re Indices				
Components	Value		Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g		Butoxyacetic acid (BAA), with hydrolysis	Creatinine urine	in *
Isopropyl alcohol (CAS 67-63-0)	40 mg/l		Acetone	Urine	*
* - For sampling details, ple	ase see the source	docu	ment.		
osure guidelines					
US - California OELs: Skir	n designation				
	-			absorbed thr	ough the skin.
2-Butoxyethanol (CAS US - Minnesota Haz Subs	: Skin designation	appi			
US - Minnesota Haz Subs 2-Butoxyethanol (CAS	111-76-2)	арри		signation app	olies.
US - Minnesota Haz Subs 2-Butoxyethanol (CAS US - Tennessee OELs: Sk 2-Butoxyethanol (CAS	111-76-2) in designation 111-76-2)		Skin des Can be	•	olies. rough the skin.
US - Minnesota Haz Subs 2-Butoxyethanol (CAS US - Tennessee OELs: Sk 2-Butoxyethanol (CAS US NIOSH Pocket Guide t	111-76-2) in designation 111-76-2) o Chemical Hazard		Skin des Can be <b>kin designation</b>	absorbed thr	ough the skin.
US - Minnesota Haz Subs 2-Butoxyethanol (CAS US - Tennessee OELs: Sk 2-Butoxyethanol (CAS	111-76-2) in designation 111-76-2) o Chemical Hazard 111-76-2)	ds: Sl	Skin des Can be kin designation Can be	absorbed thr	
US - Minnesota Haz Subs 2-Butoxyethanol (CAS US - Tennessee OELs: Sk 2-Butoxyethanol (CAS US NIOSH Pocket Guide t 2-Butoxyethanol (CAS	111-76-2) in designation 111-76-2) o Chemical Hazard 111-76-2) is for Air Contamin	ds: Sl	Skin des Can be kin designation Can be (29 CFR 1910.100	absorbed thr absorbed thr <b>0)</b>	ough the skin.

#### Exp

## 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 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	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	Liquid.
Color	Light blue.
Odor	Ammoniacal.
Odor threshold	Not available.
рН	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 exp	losive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	25 % estimated
Vapor pressure	23.1 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.99
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	446 °F (230 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	99.8 % estimated
10 Stability and reactivity	

# 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.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
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.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

information on toxicological	enecis	
Acute toxicity	Not available.	
Product	Species	Test Results
HydroForce® Glass Cleaner		
Acute		
Dermal		
LD50	Rabbit	21369.1484 mg/kg estimated
Inhalation		
LC50	Rat	22187.9824 ppm, 4 hours estimated
		3930 mg/l, 4 hours estimated
LCL0	Rat	933.3333 mg/l, 1 Hours estimated
Oral		
LD50	Rat	25359.0215 mg/kg estimated
* Estimates for product ma	y be based on additional co	mponent data not shown.
Skin corrosion/irritation	Prolonged skin contact	t may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eye	es may cause temporary irritation.
Respiratory sensitization	Not available.	
Skin sensitization	This product is not exp	pected to cause skin sensitization.
Germ cell mutagenicity	No data available to in mutagenic or genotoxi	dicate product or any components present at greater than 0.1% are c.
Carcinogenicity	This product is not con	sidered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Over	all Evaluation of Carcinog	enicity
2-Butoxyethanol (CAS	5 111-76-2)	3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	This product is not exp	pected to cause reproductive or developmental effects.

12. Ecological information	l
Further information	This product has no known adverse effect on human health.
	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.
Chronic effects	May be harmful if absorbed through skin.
Aspiration hazard	Not available.
Specific target organ toxicity - repeated exposure	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.

Ecotoxicity

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

Components       Species       Test Results         2-Butoxyethanol (CAS 111-76-2) Aquatic Acute       Aquatic Acute       Acute         Crustacea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout.donaldson trout (Oncorrhynchus mykiss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7)       Aquatic       >= 1000 mg/l, 96 hours         Aquatic       Eish       LC50       Chinook salmon (Oncorhynchus       0.43 - 0.47 mg/l, 96 hours         Aquatic       Acute       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.       strastacea       No data available.         Partition coefficient n-octamol       No data available.       No data available.       No data available.         Partition coefficient n-octamol       / water (log Kow)       2-8troxyethanol       0.05       Stata evaluable.         Part adverse effects       No other adverse environmental effects (e.g. ozone degletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.       Stata available.         Part adverse offects       No tregulated.<	Product		Species	Test Results
Acute       Constances       EC50       Daphnia       480 pm, 48 hours estimated         Fish       LC50       Fish       45168.2773 mg/l, 96 hours estimated         Components       Species       Test Results         2-Butoxyethanol (CAS 111-76-2)       Aquatic       Acute         Acute       Constancea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout       >= 1000 mg/l, 96 hours         Aquatic       Chrosok salmon (Oncorthynchus       0.43 - 0.47 mg/l, 96 hours         Aquatic       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Aquatic       Acute       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Setimates for productinacy be based on additional component data not shown.       state-sta	HydroForce® Glass Cleane	er		
Crustacea     EC50     Daphnia     480 ppm, 48 hours estimated       Fish     LC50     Fish     45168.2773 mg/l, 96 hours estimated       Components     Species     Test Results       Aquatic     Acute     EC50     Water flea (Daphnia magna)     1550 mg/l, 48 hours       Fish     LC50     Rainbow trout, donaldson trout (Oncortynchus mykiss)     >= 1000 mg/l, 96 hours       Armonia (CAS 7664-41-7)     Aquatic     >= 1000 mg/l, 96 hours       Aquatic     Fish     LC50     Chinook salmon (Oncortynchus mykiss)       Armonia (CAS 7664-41-7)     Aquatic     >= 1000 mg/l, 96 hours       Aquatic     Fish     LC50     Chinook salmon (Oncortynchus mykiss)       Armonia (CAS 7664-41-7)     Aquatic     >       Aquatic     Fish     LC50     Chinook salmon (Oncortynchus mykiss)       Armonia (CAS 7664-41-7)     Aquatic     >       Aquatic     LC50     Chinook salmon (Oncortynchus mykiss)     0.43 - 0.47 mg/l, 96 hours       Isopropyl alcohol (CAS 67-63-0)     Aquatic     >     >       Acute     Coustacea     EC50     Water flea (Daphnia magna)     7550 - 13299 mg/l, 48 hours       Sisteme and degradability     No data available     No data available     >       excue     No data available     0.81, log Pow     > <t< th=""><th>Aquatic</th><th></th><th></th><th></th></t<>	Aquatic			
Fish       LC50       Fish       45168.2773 ng/l, 96 hours estimate         Components       Species       Test Results         2-Bitoxyethanol (CAS 111-76-2)       Aquatic         Acute       Custaccea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout       >= 1000 mg/l, 96 hours         Aquatic       Aquatic				
Components       Species       Test Results         2-Butoxyethanol (CAS 111-76-2) Aquatic Acute       Aquatic Acute       Acute         Crustacea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout (Oncorfnynchus mykliss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7) Aquatic       Total acute       >= 1000 mg/l, 96 hours         Fish       LC50       Chinook salmon (Oncorthynchus tshawytscha)       0.43 - 0.47 mg/l, 96 hours         Isopropyl alcohol (CAS 67-63-0)       Aquatic Acute       Acute       -         Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         * Estimates for product may be based on additional component data not shown.       -       -         *sistence and degradability       No data is available on the degradability of this product.       -         accumulative potential       No data available       0.81, log Pow       -         2-Butoxyethanol       0.81, log Pow       -       -       2.13.0, percential, endocrine disruption, global warming potential) are expected from this component.         Isopropyl alcohol       No data available.       No data available.       No data available.         Partition coefficient n-ocutanol       No data available.       No data av	Crustacea	EC50	Daphnia	480 ppm, 48 hours estimated
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 (Oncorthynchus mykiss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7)       Aquatic       >= 1000 mg/l, 96 hours         Fish       LC50       Chinook salmon (Oncorhynchus       0.43 - 0.47 mg/l, 96 hours         Isopropyl alcohol (CAS 67-63-0)       Aquatic	Fish	LC50	Fish	45168.2773 mg/l, 96 hours estimated
Aquatic Acute       Acute         Grustacea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout (Oncorthynchus mykiss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7)       Aquatic       >=       1000 mg/l, 96 hours         Aquatic       Fish       LC50       Chinook salmon (Oncorthynchus tshawytscha)       0.43 - 0.47 mg/l, 96 hours         Isopropyl alcohol (CAS 67-63-0)       Aquatic       Acute       -         Acute       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product move       No data is available on the degradability of this product.         reacumulative potential       No data available.       -         Partition coefficient n-octamult water (log Kow)       0.81, log Pow       -         2-Butoxyethanol       0.05       No data available.       -         rer adverse effects       No data available.       -       -         sporopyl alcohol       No at a covinonmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.         Disposal considerati	Components		Species	Test Results
Acute Crustacea       EC50       Water filea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout (Oncorthynchus mykiss)       >= 1000 mg/l, 96 hours         Armonia (CAS 7664-41-7)	2-Butoxyethanol (CAS 111-	76-2)		
Crustacea       EC50       Water flea (Daphnia magna)       1550 mg/l, 48 hours         Fish       LC50       Rainbow trout, donaldson trout (Oncorrhynchus mykiss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7)	Aquatic			
Fish       LC50       Rainbow trout, donaldson trout (Oncorhynchus mykiss)       >= 1000 mg/l, 96 hours         Ammonia (CAS 7664-41-7)       Aquatic	Acute			
Ammonia (CAS 7664-41-7) Aquatic Fish LC50 Chinook salmon (Oncorhynchus ishawytscha) Isopropyl alcohol (CAS 67-63-0) Aquatic Acute Crustacea EC50 Water flea (Daphnia magna) 7550 - 13299 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 3200 mg/l, 96 hours * Estimates for product may be based on additional component data not shown. rsistence and degradability No data is available on the degradability of this product. Partition coefficient n-octanol No data available. Partition coefficient n-octanol No data available. * On tregulated as dangerous goods. * LTansport information * Constance and ager out a constance with all applicable regulations. * Disposal of waste code Not regulated as dangerous goods. * Ca hours double data data not a magnet with all applicable regulated as dangerous goods. * Ca hours data data data packaging * Disposal of so the product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. * Disposal consideration * Containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w dispose in second action dispose in accordance with all applicable regulations. * Containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. * Transport information * Not regulated. * Transport information * Not regulated as dangerous goods. * A Not regulated as dangerous goods. * A	Crustacea	EC50	Water flea (Daphnia magna)	1550 mg/l, 48 hours
Aquatic       Fish       LC50       Chinook salmon (Oncorhynchus ishawytscha)       0.43 - 0.47 mg/l, 96 hours ishawytscha)         Isopropyl alcohol (CAS 67-63-0)       Aquatic       ishawytscha)       0.43 - 0.47 mg/l, 96 hours         Aquatic       Acute       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.       No data is available on the degradability of this product.         resistence and degradability       No data is available on the degradability of this product.       No data is available.         Partition coefficient n-octamol / water (log Kow)       0.81, log Pow       0.5         2-Butoxyethanol       0.45       0.05         Isopropyl alcohol       0.05       No data available.         her 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.         Bibliog in unsed products       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposa is enable.         sposal of waste from could be the enable on approved waste handling site for recycling or disposa is neabled co	Fish	LC50		>= 1000 mg/l, 96 hours
Fish       LC50       Chinook salmon (Oncorhynchus tshawytscha)       0.43 - 0.47 mg/l, 96 hours tshawytscha)         Isopropyl alcohol (CAS 67-63-0)       Aquatic Acute       1         Acute       1       1         Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.         rsistence and degradability       No data available on the degradability of this product.         No data available on the degradability of this product.         Partition coefficient n-octarul / water (log Kow         sopropyl alcohol       0.81, log Pow         Isopropyl alcohol         No data available.         Partition coefficient n-octarul / water (log Kow         Sopropyl alcohol       0.05         No data available.         Partition coefficient n-octarul / water (log Kow         Isopropyl alcohol       0.05         No data available.         Partition coefficient n-octarul / water doverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential)          No ther adverse environduc rue disruption, glo	Ammonia (CAS 7664-41-7)			
Isopropyl alcohol (CAS 67-63-0)         Aquatic         Acute         Crustaccea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.	Aquatic			
Aquatic Acute       Acute         Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.	Fish	LC50		0.43 - 0.47 mg/l, 96 hours
Acute       Crustacea       EC50       Water flea (Daphnia magna)       7550 - 13299 mg/l, 48 hours         Fish       LC50       Fathead minnow (Pimephales promelas)       3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.	Isopropyl alcohol (CAS 67-0	63-0)		
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Fish       LC50       Fathead minnow (Pimephales promelas) 3200 mg/l, 96 hours         * Estimates for product may be based on additional component data not shown.	Acute			
* Estimates for product may be based on additional component data not shown. resistence and degradability No data is available on the degradability of this product. No data available. Partition coefficient n-octanol / water (log Kow) 2-Butoxyethanol 0.81, log Pow isopropyl alcohol 0.05 bility in soil No data available. No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. 3. Disposal considerations rposal of waste from isdues / unused products aradous waste code Not regulated. Not regulated. Empty containers should be taken to an approved waste handling site for recycling or dispose Since emptied containers may retain product residue, follow label warnings even after contain myter. 4. Transport information To Not regulated as dangerous goods. CA Not regulated as dangerous goods. Not regulated as dangerous goods.	Crustacea	EC50	Water flea (Daphnia magna)	7550 - 13299 mg/l, 48 hours
rsistence and degradability       No data is available on the degradability of this product.         No data available.       No data available.         Partition coefficient n-octanol / water (log Kow)       0.81, log Pow         2-Butoxyethanol       0.81, log Pow         Isopropyl alcohol       0.05         bility in soil       No data available.         ner 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.         B. Disposal considerations       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. Dispose in accordance with all applicable regulations.         zardous waste code       Not regulated.         Empty containers should be taken to an approved waste handling site for recycling or dispose.         Since emptied containers may retain product residue, follow label warnings even after containers may retain product residue, follow label warnings even after container may tech as dangerous goods.         M       Not regulated as dangerous goods.         M       Not regulated as dangerous goods.	Fish	LC50	Fathead minnow (Pimephales promelas)	3200 mg/l, 96 hours
2-Butoxyethanol Isopropyl alcohol       0.81, log Pow 0.05         billity in soil       No data available.         her 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.         B. Disposal considerations       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. Dispose in accordance with all applicable regulations.         vardous waste code       Not regulated.         Empty containers should be taken to an approved waste handling site for recycling or dispose Since emptied containers may retain product residue, follow label warnings even after contair emptied.         I. Transport information       T         T       Not regulated as dangerous goods.         A       Not regulated as dangerous goods.	•			
bility in soil       No data available.         her 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.         3. Disposal considerations       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. Dispose in accordance with all applicable regulations.         zardous waste code       Not regulated.         mtaminated packaging       Empty containers should be taken to an approved waste handling site for recycling or disposa Since emptied containers may retain product residue, follow label warnings even after containers may iter and the second				
her 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.         3. Disposal considerations       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed w disposal site. Dispose in accordance with all applicable regulations.         zardous waste code       Not regulated.         Empty containers should be taken to an approved waste handling site for recycling or disposa Since emptied.         4. Transport information         DT         Not regulated as dangerous goods.         IA         Not regulated as dangerous goods.	Isopropyl alcohol			
a. Disposal considerations         sposal of waste from         sidues / unused products         zardous waste code         ntaminated packaging         T         Lempty containers may retain product residue, follow label warnings even after containers may retain product residue, follow label warnings even after containers         Mot regulated as dangerous goods.         TA         Not regulated as dangerous goods.         DA         DA	bility in soil	No data a	available.	
sposal of waste from       This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty         sidues / unused products       Containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed with all applicable regulations.         zardous waste code       Not regulated.         ntaminated packaging       Empty containers should be taken to an approved waste handling site for recycling or dispose Since emptied containers may retain product residue, follow label warnings even after container emptied.         4. Transport information       T         Not regulated as dangerous goods.       Image: Container of the second state of the se	ner adverse effects			
sidues / unused products       containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed we disposal site. Dispose in accordance with all applicable regulations.         zardous waste code       Not regulated.         ntaminated packaging       Empty containers should be taken to an approved waste handling site for recycling or disposa Since emptied containers may retain product residue, follow label warnings even after containers may retain product residue, follow label warnings even after containers         A. Transport information       T         Not regulated as dangerous goods.       Not regulated as dangerous goods.         DG       DG	3. Disposal considerat	ions		
Intaminated packaging       Empty containers should be taken to an approved waste handling site for recycling or disposal Since emptied containers may retain product residue, follow label warnings even after containers         4. Transport information       Image: Containers of the containers of	•	container	rs may be recycled. Collect and reclaim or dispo	se in sealed containers at licensed was
Since emptied containers may retain product residue, follow label warnings even after contain emptied. 4. Transport information T Not regulated as dangerous goods. TA Not regulated as dangerous goods. DG	zardous waste code	Not regul	ated.	
T Not regulated as dangerous goods. TA Not regulated as dangerous goods. DG	ntaminated packaging	Since em		
Not regulated as dangerous goods. <b>FA</b> Not regulated as dangerous goods. <b>DG</b>	I. Transport information	on		
A Not regulated as dangerous goods.	т			
Not regulated as dangerous goods. DG	Not regulated as dangerous	s goods.		
DG	A			
	Not regulated as dangerous	s goods.		
Not regulated as dangerous goods.				
	Not regulated as dangerous	s goods.		
	5. Regulatory informat			

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

#### Not regulated.

Not regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance 2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substance List (40 CFR 302.4) 2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substances: Reportable quantity Not listed.	
Not listed. US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance 2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substance List (40 CFR 302.4) 2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substances: Reportable quantity Not listed.	
<ul> <li>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance 2-Butoxyethanol (CAS 111-76-2)</li> <li>CERCLA Hazardous Substance List (40 CFR 302.4) 2-Butoxyethanol (CAS 111-76-2)</li> <li>CERCLA Hazardous Substances: Reportable quantity Not listed.</li> </ul>	
2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substance List (40 CFR 302.4) 2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substances: Reportable quantity Not listed.	
2-Butoxyethanol (CAS 111-76-2) CERCLA Hazardous Substances: Reportable quantity Not listed.	
CERCLA Hazardous Substances: Reportable quantity Not listed.	
Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the Nation Response Center (800-424-8802) and to your Local Emergency Planning Committee.	ıal
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Safe Drinking Water Act Not regulated.	
(SDWA)	
Food and Drug Not regulated. Administration (FDA)	
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Section 311/312       Immediate Hazard - No         Hazard categories       Delayed Hazard - No         Fire Hazard - No       Pressure Hazard - No         Reactivity Hazard - No	
SARA 302 Extremely No hazardous substance	
US state regulations	
US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 1110	0)
Not listed. US. New Jersey Worker and Community Right-to-Know Act	
2-Butoxyethanol (CAS 111-76-2)	
Ammonia (CAS 7664-41-7)	
Isopropyl alcohol (CAS 67-63-0) US. Massachusetts RTK - Substance List	
2-Butoxyethanol (CAS 111-76-2)	
Isopropyl alcohol (CAS 67-63-0)	
US. Pennsylvania Worker and Community Right-to-Know Law Ammonia (CAS 7664-41-7)	
Isopropyl alcohol (CAS 67-63-0)	
2-Butoxyethanol (CAS 111-76-2) US. Rhode Island RTK	
2-Butoxyethanol (CAS 111-76-2) Ammonia (CAS 7664-41-7)	
US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer.	
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance	
1,3-Dichloropropene (CAS 542-75-6)Listed: January 1, 1989Dichloromethane (CAS 75-09-2)Listed: April 1, 1988	
Volatile organic compounds (VOC) regulations	
EPA	
VOC content (40 CFR 3 % 51.100(s))	
Consumer products Not regulated (40 CFR 59, Subpt. C)	

State			
Consumer products	This product is regulated as a Glass Cleaner (non-aerosol). This product is compliant for use in a 50 states.		
VOC content (CA)	3 %		
VOC content (OTC)	3 %		
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)	No	

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).

## 16. Other information, including date of preparation or last revision

Issue date	11-18-2014
Prepared by	Allison Cho
Version #	01
Further information	CRC # 434D
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
NFPA ratings	
Disclaimer	CRC cannot anticipate all conditions under which t of other manufacturers in combination with its prod to ensure safe conditions for handling, storage and for loss, injury, damage or expense due to imprope

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