

SAFETY DATA SHEET

1. Identification

Product identifier

Carquest Glass Cleaner

Other means of identification

Product code

1045, CRC# 09624

Recommended use

Glass cleaner

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name

CRC Industries, Inc.

Address

885 Louis Dr.

Warminster, PA 18974 US

Telephone

General Information

215-674-4300

Technical

Assistance

800-521-3168

Customer Service

800-272-4620

24-Hour Emergency

800-424-9300 (US)

(CHEMTREC)

703-527-3887 (International)

Website

www.crcindustries.com

2. Hazard(s) identification

Physical hazards

Gases under pressure

Liquefied gas

Health hazards

Reproductive toxicity

Category 2

Environmental hazards

Hazardous to the aquatic environment, acute

Category 3

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Contains gas under pressure; may explode if heated. Suspected of damaging fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49°C/120°F. 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. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If exposed or concerned: Get medical attention.

Storage

Store locked up. Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause can to burst.

Disposal

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

Hazard(s) not otherwise

None known.

classified (HNOC)

Supplemental information

9.7% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment, 9.7% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

-		
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Chemical name Common name and synonyms		CAS number	%	
Water		7732-18-5	80 - 90	
Liquefied Petroleum Gas		68476-86-8	5 - 10	
2-Butoxyethanol		111-76-2	. 1-3	
Ethanol		64-17-5	1 - 3	
Ammonia	onia 7664-41-7		< 1	
Methanol		67-56-1	< 0.2	

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

4. First-aid measures

If symptoms develop move victim to fresh air. Get medical attention if symptoms persist. Inhalation Rinse skin with water/shower. Get medical attention if irritation develops and persists. Skin contact Eye contact Rinse with water. Get medical attention if irritation develops and persists. Call a POISON CENTER or doctor/physician. Ingestion Most important Direct contact with eyes may cause temporary irritation. symptoms/effects, acute and delayed Provide general supportive measures and treat symptomatically. Keep victim under observation. Indication of immediate medical attention and special Symptoms may be delayed. treatment needed IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware General information of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

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Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure.
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

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Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.		

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. 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. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
•		50 ppm	
Ammonia (CAS 7664-41-7)	PEL	35 mg/m3	
		50 ppm	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
	•	1000 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
•		200 ppm	
US. ACGIH Threshold Limit Values	5		
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	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
·		5 ppm	
Ammonia (CAS 7664-41-7)	STEL	27 mg/m3	
		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	
	TVVA	260 mg/m3	
		200 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	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

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

Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies. Methanol (CAS 67-56-1) Skin designation applies.

US - Tennesse OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin. 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.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin. Methanol (CAS 67-56-1) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) 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

Wear safety glasses with side shields (or goggles).

Skin protection

Eye/face protection

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

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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

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

Odor Not available. **Odor threshold**

pН 10.5

Melting point/freezing point Not available.

Initial boiling point and boiling

212 °F (100 °C) estimated

range

Flash point

None (Tag Closed Cup)

Evaporation rate Slow. Flammability (solid, gas)

Not available.

Flammability limit - lower

Upper/lower flammability or explosive limits 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 (water)

Soluble.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature **Decomposition temperature** 446 °F (230 °C) estimated Not available.

Viscosity (kinematic)

Not available.

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

Conditions to avoid

No dangerous reaction known under conditions of normal use.

reactions

Heat, flames and sparks. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

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.

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

Information on toxicological effects

Acute toxicity

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product

Species

Test Results

Carquest Glass Cleaner

Acute

Dermal

LD50

Rabbit

14759,4121 mg/kg estimated

Inhalation

LC50

Rat

7998.0244 mg/l, 4 hours estimated

Oral

LD50

Rat

14201.8389 mg/kg estimated

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

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Material name: Carquest Glass Cleaner

Respiratory sensitization

Not available.

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.

Carcinogenicity

Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Aspiration hazard

single exposure

Not classified.

Chronic effects

Prolonged inhalation may be harmful. 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.

Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity	Harmful to	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.			
Product		Species	Test Results		
Carquest Glass Cleaner	*			-	
Aquatic					
Fish	LC50	Fish	6294.9312 mg/l, 96 hours estimated		
Acute					
Crustacea	EC50	Daphnia	202.6171 ppm, 48 hours estimated		
Components		Species	Test Results	_ (
2-Butoxyethanol (CAS 1	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 7664-4	1-7)				
Aquatic					
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours		
Ethanol (CAS 64-17-5)					
Aquatic					
Acute					
Algae	EC50	Green algae (Chlorella kessleri)	1450 mg/l		
Crustacea	EC50	Water flea (Daphnia magna)	11.2 mg/l, 48 hours		
			7.7 - 11.2 mg/l, 48 hours		
Fish	LC50	Fathead minnow (Pimephales promelas)	15300 mg/l, 96 hours		
•			> 100 mg/l, 96 hours		
			> 100 mg/l, 96 hours		
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	13000 - 15300 mg/l, 96 hours		
Methanol (CAS 67-56-1	l)				
Aquatic	-			(
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours	/	

Test Results Species Components

Fish

LC50

Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

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

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol

0.81, log Pow

Ethanol

-0.31-0.77

Methanol Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Contaminated 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 container is emptied.

14. Transport information

DOT

UN1950 **UN number**

UN proper shipping name

Aerosols, non-flammable, Limited Quantity

Transport hazard class(es)

Class

Subsidiary risk 2.2

Label(s)

Packing group Not applicable. Special precautions for user Not available.

Special provisions

Not available. 306

Packaging exceptions Packaging non bulk

None

2.2

Packaging bulk

None

IATA

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. 2L

ERG Code Special precautions for user Not available.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

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

Marine pollutant

No.

EmS

Not available.

Special precautions for user Not available.

15. Regulatory information

US federal regulations

This product is 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.

SARA 304 Emergency release notification

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.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

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 - Yes Fire Hazard - No

Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely

No

hazardous substance

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

Ammonia (CAS 7664-41-7)

Ethanol (CAS 64-17-5)

Methanol (CAS 67-56-1)

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)

Ethanol (CAS 64-17-5)

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonia (CAS 7664-41-7)

Methanol (CAS 67-56-1)

2-Butoxyethanol (CAS 111-76-2)

Ethanol (CAS 64-17-5)

US. Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2)

Ammonia (CAS 7664-41-7)

Methanol (CAS 67-56-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987 Methyl isobutyl ketone (CAS 108-10-1) Listed: November 4, 2011

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8)

Methanol (CAS 67-56-1)

Listed: August 7, 2009

Listed: March 16, 2012

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8)

Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 9

9.6 %

51.100(s))

Consumer products

Compliant

(40 CFR 59, Subpt. C)

State

Consumer products

This product is regulated as a Glass Cleaner (aerosol). This product is compliant for use in all 50

states.

VOC content (CA)

9.6 %

VOC content (OTC)

9.6 %

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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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, including date of preparation or last revision

Issue date 07-24-2014
Prepared by Allison Cho
Version # 01

Further information CRC # 411A
HMIS® ratings Health: 1*
Flammability: 0

Physical hazard: 0 Personal protection: B

NFPA ratings Health: 1

Flammability: 0 Instability: 0

Material name: Carquest Glass Cleaner
1910 Version #: 01 Issue date: 07-24-2014

NFPA ratings



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 Industries' 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 Industries.