



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Glass & Surface Wipes

Product Number (s): 04102

Product Use: Glass and surface cleaner

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

As defined by OSHA's Hazard Communication Standard, this product is hazardous.
Appearance & Odor: Colorless liquid with alcohol / floral scent saturated onto towels.

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause eye irritation including redness, tearing or burning.

SKIN: Repeated exposure may cause skin irritation. Symptoms may include redness, drying or cracking of the skin.

INHALATION: Overexposure to vapors is unlikely, but may cause upper respiratory tract irritation, drowsiness or dizziness.

INGESTION: Ingestion of a small amount of free liquid is not expected to cause health effects. Ingestion of large amounts of liquid may be harmful and may cause gastrointestinal irritation.

CHRONIC EFFECTS: None known

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: Pre-existing skin conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Water	7732-18-5	60 – 100
2-Butoxyethanol	111-76-2	1 – 5
Isopropyl alcohol	67-63-0	0.5 – 1.5

Section 4: First Aid Measures

- Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation: Unlikely route as liquid is impregnated on a towel, minimizing exposure via this route. If overexposed, move to fresh air. If symptoms develop, seek medical attention.
- Ingestion: Not a likely exposure route. If a large quantity of liquid is swallowed, do not induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
- Note to Physicians:* This product contains 2-Butoxyethanol which, if ingested in significant quantities, may result in red blood cell hemolysis.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is non-flammable.

Flash Point:	None	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Fire and Explosion Data:

- Suitable Extinguishing Media: Not usually needed as this product does not readily support combustion. Use media appropriate for fire's fuel source.
- Products of Combustion: Carbon dioxide, carbon monoxide, smoke and soot
- Explosion Hazards: None expected.
- Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

- Personal Precautions: Use personal protection recommended in Section 8.
- Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.
- Methods for Containment & Clean-up: Caution, slip hazard. Wipe small releases with a dry absorbent cloth or other absorbent material. Ventilate the area with fresh air. Clean any slippery

residues with soap and water. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Do not allow towel contact with eyes. Do not use for personal hygiene or as a baby wipe. Wash hands after using wipes. Avoid inhaling vapors. Follow good chemical hygiene practices when handling this material. Use from original container only and follow label directions carefully.

Storage Procedures: Keep container closed when not in use. Store in a cool well-ventilated area. Keep out of reach of children. Do not contaminate water, food or feed by use or storage. Keep from freezing.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Water	NE	NE	NE	NE	NE		
2-Butoxyethanol	50 (s)	NE	20	NE	NE		ppm
Isopropyl alcohol	400	500 (v)	200	400	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If irritation is experienced, use a NIOSH-approved filtering respirator.

Eye/face Protection: None necessary. Do not allow towel to directly contact eyes.

Skin Protection: None necessary. If repeated or prolonged contact is possible, use protective gloves such as nitrile or rubber.

Section 9: Physical and Chemical Properties

Physical State: liquid saturated onto towels

Color: colorless

Odor: alcohol / floral

Odor Threshold: ND

Specific Gravity: 0.998

Initial Boiling Point: 212°F

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: slow

Solubility: complete

Coefficient of water/oil distribution: ND

pH: 4.4

Volatile Organic Compounds: wt %: 3.99 g/L: 39.8 lbs./gal: 0.33

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Temperature extremes

Incompatible Materials: Strong oxidizers, acids or bases

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke and soot

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Water	> 90 mL/kg	No data	No data
2-Butoxyethanol	470 mg/kg	220 mg/kg	450 ppm/4H
Isopropyl alcohol	5000 mg/kg	12,800 mg/kg	16,000 ppm/8H

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Water	No	No	No	No	No
2-Butoxyethanol	No	No	No	E (severe) / S (mild) / R (mild)	No
Isopropyl alcohol	No	No	No	E (moderate) / S (mild)	No

E – Eye	S – Skin	R - Respiratory
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Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: 2-Butoxyethanol - 96 Hr LC50, Bluegill sunfish: 1490 mg/L
24 Hr LC50, daphnia: 1720 mg/L

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Not Regulated

ICAO/IATA (air): Not Regulated

IMO/IMDG (water): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

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.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard	No
Reactive Hazard	No
Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
2-Butoxyethanol (glycol ethers category): 2.99%

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: In states with Consumer Products VOC regulations, this product is compliant as a General Purpose Cleaner.

State Right to Know:

New Jersey: 111-76-2, 67-63-0
Pennsylvania: 111-76-2, 67-63-0
Massachusetts: 111-76-2, 67-63-0
Rhode Island : 111-76-2, 67-63-0

Canadian Regulations:**Controlled Products Regulations:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: D1A, D1B, D2B

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

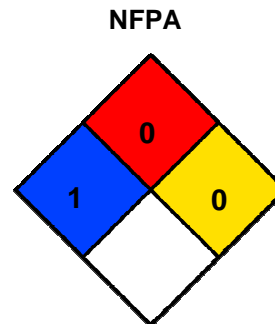
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

HMIS® (II)	
Health:	1
Flammability:	0
Reactivity:	0
PPE:	NA



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
 CRC #: 04102
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Changes since last revision: Section 15: Consumer Products VOC Regulations revised

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 MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists	NA: Not Applicable
CAS: Chemical Abstract Service	ND: Not Determined
CFR: Code of Federal Regulations	NIOSH: National Institute of Occupational Safety & Health
DOT: Department of Transportation	NFPA: National Fire Protection Association
DSL: Domestic Substance List	NTP: National Toxicology Program
g/L: grams per Liter	OSHA: Occupational Safety and Health Administration
HMIS: Hazardous Materials Identification System	PMCC: Pensky-Martens Closed Cup
IARC: International Agency for Research on Cancer	PPE: Personal Protection Equipment
IATA: International Air Transport Association	ppm: Parts per Million
ICAO: International Civil Aviation Organization	RoHS: Restriction of Hazardous Substances
IMDG: International Maritime Dangerous Goods	STEL: Short Term Exposure Limit
IMO: International Maritime Organization	TCC: Tag Closed Cup
lbs./gal: pounds per gallon	TWA: Time Weighted Average
LC: Lethal Concentration	WHMIS: Workplace Hazardous Materials Information System
LD: Lethal Dose	