



Material Safety Data Sheet

Glass Cleaner (Aerosol)

MSDS ID: 460

*** Section 1 - Chemical Product and Company Identification ***

Part Number: 460

Product Use: Glass Cleaner

Manufacturer Information

BG Products Inc.
701 S. Wichita Street
Wichita, KS 67213 USA
www.bgprod.com

Phone: (800) 961-6228 or (316) 265-2686
Fax: (316) 265-1082
Emergency # 1-800-424-9300 (CHEMTREC)

*** Section 2 - Hazards Identification ***

Emergency Overview

CAUTION

- CONTENTS UNDER PRESSURE!
- EYE AND SKIN IRRITANT! Avoid contact with eyes, skin, and clothing.
- This product may be harmful by inhalation. Avoid prolonged breathing of fumes. Use with adequate ventilation.
- This product may be harmful if it is swallowed.

HMIS Ratings: Health: 1 Fire: 3 Physical Hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7732-18-5	Water	60-100
64-17-5	ETHANOL	5-10
111-76-2	2-Butoxyethanol	1-5
75-28-5	Isobutane	1-5
74-98-6	Propane	1-5

Component Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is considered a controlled product under the Canadian Controlled Products Regulations (CPR).

*** Section 4 - First Aid Measures ***

Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

Skin

For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention.

Ingestion

If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

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Inhalation

Move person to non-contaminated air. Give artificial respiration if not breathing. Call a physician if symptoms develop or persist.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.
Keep away from heat, sparks, or open flame.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing.
Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 1 Fire: 3 Reactivity: 0 Other: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain the discharged material. Remove sources of ignition.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material.
Shovel material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away. In case of large spills, follow all facility emergency response procedures.

Special Procedures

Wear appropriate personal protective equipment.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation. Keep container closed.

Storage Procedures

Do not store this material in open or unlabeled containers. Store this product in air-tight containers away from sources of heat and light.

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*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ETHANOL (64-17-5)

ACGIH: 1000 ppm TWA
OSHA: 1000 ppm TWA; 1900 mg/m3 TWA
NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Propane (74-98-6)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
OSHA: 1000 ppm TWA; 1800 mg/m3 TWA
NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA

Isobutane (75-28-5)

ACGIH: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
NIOSH: 800 ppm TWA; 1900 mg/m3 TWA

2-Butoxyethanol (111-76-2)

ACGIH: 20 ppm TWA
OSHA: 25 ppm TWA; 120 mg/m3 TWA
Prevent or reduce skin absorption
NIOSH: 5 ppm TWA; 24 mg/m3 TWA
Potential for dermal absorption

B: Canadian Provincial Exposure Limits

ETHANOL (64-17-5)

Alberta: 1000 ppm TWA; 1880 mg/m3 TWA
British Columbia: 1000 ppm TWA
Manitoba: 1000 ppm TWA
New Brunswick: 1000 ppm TWA; 1880 mg/m3 TWA
NW Territories: 1000 ppm TWA; 1884 mg/m3 TWA
1250 ppm STEL; 2355 mg/m3 STEL
Nova Scotia: 1000 ppm TWA
Nunavut: 1000 ppm TWA; 1884 mg/m3 TWA
1250 ppm STEL; 2355 mg/m3 STEL
Ontario: 1000 ppm TWAEV; 1900 mg/m3 TWAEV
Quebec: 1000 ppm TWAEV; 1880 mg/m3 TWAEV
Saskatchewan: 1000 ppm TWA
1250 ppm STEL
Yukon: 1000 ppm TWA; 1900 mg/m3 TWA
1000 ppm STEL; 1900 mg/m3 STEL

Propane (74-98-6)

Alberta: 1000 ppm TWA; 1800 mg/m3 TWA
1500 ppm STEL; 2700 mg/m3 STEL
British Columbia: 1000 ppm TWA
Manitoba: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Nova Scotia: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Ontario: 1000 ppm TWAEV
Quebec: 1000 ppm TWAEV; 1800 mg/m3 TWAEV
Saskatchewan: 1000 ppm TWA
1250 ppm STEL

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Isobutane (75-28-5)

Manitoba: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Nova Scotia: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Saskatchewan: 1000 ppm TWA
1250 ppm STEL

2-Butoxyethanol (111-76-2)

Alberta: 20 ppm TWA; 97 mg/m3 TWA
Substance may be readily absorbed through intact skin
British Columbia: 20 ppm TWA
Manitoba: 20 ppm TWA
New Brunswick: 25 ppm TWA; 121 mg/m3 TWA
Skin - potential for cutaneous absorption
NW Territories: 25 ppm TWA; 120 mg/m3 TWA
75 ppm STEL; 360 mg/m3 STEL
Skin notation
Nova Scotia: 20 ppm TWA
Nunavut: 25 ppm TWA; 120 mg/m3 TWA
75 ppm STEL; 360 mg/m3 STEL
Skin notation
Ontario: 20 ppm TWAEV
Absorption through skin, eyes, or mucous membranes
Quebec: 20 ppm TWAEV; 97 mg/m3 TWAEV
Saskatchewan: 20 ppm TWA
30 ppm STEL
Yukon: 50 ppm TWA; 240 mg/m3 TWA
150 ppm STEL; 720 mg/m3 STEL
Skin notation

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

General

Use good industrial hygiene practices in handling this material. Avoid inhalation of mists/vapors and contact with skin and eyes.

Skin

Use appropriate hand protection.

Respiratory

Use NIOSH approved respirator with cartridge, air line, or SCBA as appropriate based on workplace exposure evaluations.

Eyes

Wear safety glasses; chemical goggles (if splashing is possible).

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Clear	Odor:	Spicy Odor
Physical State:	Aerosol	Flash Point:	Not Determined
Flash Point Method:	Not Available	Boiling Point:	Not Determined
Specific Gravity:	0.955	Bulk Density:	7.97 lbs/gal
Solubility (H2O):	Complete	Vapor Pressure:	50 PSIG
Vapor Density:	Heavier Than Air	Volatile Organic Content:	12%
Auto Ignition:	Not Available	pH:	Not Available

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Physical Properties: Additional Information

This product determined to not be Flammable per ASTM D3065 - 01(2006) Standard Test Methods for Flammability of Aerosol Products.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials. Avoid strong oxidizing agents.

Incompatibility

This product may react with oxidizing agents. Strong oxidizing agents (peroxides, chlorine, strong acids).

Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

An LD50 value for this product has not been determined.

B: Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

ETHANOL (64-17-5)

Oral LD50 Rat: 7060 mg/kg

Propane (74-98-6)

Inhalation LC50 Rat: 658 mg/L/4H

Isobutane (75-28-5)

Inhalation LC50 Rat: 658 mg/L/4H

2-Butoxyethanol (111-76-2)

Inhalation LC50 Rat: 2.21 mg/L/4H; Inhalation LC50 Rat:450 ppm/4H; Oral LD50 Rat:470 mg/kg; Dermal LD50 Rat:2270 mg/kg; Dermal LD50 Rabbit:220 mg/kg

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

ETHANOL (64-17-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

2-Butoxyethanol (111-76-2)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC: Monograph 88 [2006] (Group 3 (not classifiable))

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*** Section 12 - Ecological Information ***

Ecotoxicity

No information available for the product.

*** Section 13 - Disposal Considerations ***

Waste Disposal Instructions

Dispose of in accordance with all applicable Federal, State, Provincial, and local regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Consumer Commodity, ORM-D

IMDG Information

Shipping Name: UN1950, Aerosol, 2.2, Limited Quantity

Required Label(s): Limited Quantity

IATA Information

Shipping Name: UN1950, Aerosol, 2.2, Limited Quantity

Required Label(s): Limited Quantity

*** Section 15 - Regulatory Information ***

US Federal Regulations

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are exempt from listing (i.e. as polymers) or are listed on the confidential inventory as declared by the supplier.

A: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
ETHANOL	64-17-5	Yes	DSL	EINECS
Propane	74-98-6	Yes	DSL	EINECS
Isobutane	75-28-5	Yes	DSL	EINECS
2-Butoxyethanol	111-76-2	Yes	DSL	EINECS

State Regulations

Other state regulations may apply. Check individual state requirements.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
ETHANOL	64-17-5	Yes	Yes	Yes	Yes	Yes	Yes
Propane	74-98-6	No	Yes	Yes	Yes	Yes	Yes
Isobutane	75-28-5	No	Yes	No	Yes	Yes	No
2-Butoxyethanol	111-76-2	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

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WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
ETHANOL	64-17-5	0.1 %
2-Butoxyethanol	111-76-2	1 %

* * * Section 16 - Other Information * * *

Other Information

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. You must notify each person to whom this mixture or trade name product is sold. This statement must not be detached. Any copy or redistribution of the Material Safety Data Sheet shall include this statement.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstract Services; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Product Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; HMIS = Hazardous Materials Information System; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IDL = Ingredient Disclosure List; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Agency; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; SCBA = Self Contained Breathing Apparatus; TSCA = Toxic Substance Control Act; WHMIS = Workplace Hazardous Materials Information System.

Contact Information

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