Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 825

Other Means of Identification: Glass Cleaner

Related Part # 825-500G

Recommended Use and Restriction on Use

Use: Cleaner for glass, plastic, chrome, and countertops

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer
MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

☎ +1-800-340-0772
FAX +1-800-340-0773
E-MAIL support@mgchemicals.com
WEB www.mgchemicals.com

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ +1-905-331-1396
FAX +1-905-331-2682
E-MAIL info@mgchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)
USA or CANADA—Call Verisk 3E at ***+1-866-519-4752*** or ***+1-760-476-3962***
(Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service
CANADA—Call CANUTEC collect at ***+1-613-996-6666*** or ****666*** on cellular phones

Section 2: Hazard(s) Identification

Classification of Hazardous Chemical

GHS Categories

Criteria	Category	Signal Word	Pictograms
Gas under pressure	Liquefied gas	Warning	Gas Cylinder

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	**WARNING**
Pictograms	**Hazard Statements**
	H280: Contains gas under pressure; may explode if heated
Prevention	**Precautionary Statements**
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.
P251	Do not pierce or burn, even after use.
Storage	**Precautionary Statements**
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

Note: Contains 12% flammable ingredients mixed with water.

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Hazards Not Otherwise Classified

HCS2012 Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiant	May displace oxygen and cause rapid suffocation.	Warning	*none*

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
67-63-0	propan-2-ol	4%
75-28-5	isobutane	4%
111-76-2	2-butoxyethanol	3%
74-98-6	propane	1%

a) Remainder is deionized water

Section 4: First-Aid Measures

Exposure Condition	*GHS Code/Symptoms/Precautionary Statements*
IF IN EYES	P305 + P351 + P338
Immediate Symptoms	*low toxicity*
Response	Rinse cautiously with lukewarm water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED	P304 + P340
Immediate Symptoms	*low toxicity*
Response	Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN	P302 + P352
Immediate Symptoms	*mild irritation*
Response	IF ON SKIN: Wash with plenty of water.

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IF SWALLOWED	P301 + P330, P331, P312
Immediate Symptoms	*low toxicity*
Response	Rinse mouth. Do NOT induce vomiting. If you feel unwell: Call a POISON CENTER or doctor.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguishing media suitable for surrounding materials. Use water spray to cool containers.
Specific Hazards	Aerosol container may erupt with force at temperatures above 50 °C [122 °F].
Combustion Products	Produces carbon oxides (CO,CO_2).
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Keep away from extreme heat, hot surfaces, or open flames.
Environmental Precautions	Not applicable
Containment Methods	Not applicable
Cleaning Methods	If necessary, wash spill area with water.
Disposal Methods	Dispose of spill waste according to Section 13.

Section 7: Handling and Storage

Prevention

Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, flames, and other ignition sources. No Smoking.

Do not pierce or burn, even after use.

Handling

Wash hands thoroughly after handling.

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].

Section 8: Exposure Controls/Personal Protection

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propan-2-ol	ACGIH	200 ppm (TWA)	400 ppm
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	200 ppm	400 ppm
	Canada BC	200 ppm	400 ppm
	Canada ON	200 ppm	400 ppm
	Canada QC	400 ppm	500 ppm
isobutane *alkane (C2-C4)* *aliphatic hydrocarbon gas*	ACGIH	a)	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	1 000 ppm	Not established
	Canada BC	1 000 ppm	Not established
	Canada ON	800 ppm	Not established
	Canada QC	Not established	Not established
2-butoxyethanol	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	50 ppm	Not established
	Canada AB	20 ppm	Not established
	Canada BC	20 ppm	Not established
	Canada ON	20 ppm	Not established
	Canada QC	25 ppm	Not established

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propane	ACGIH	a)	Not established
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	1 000 ppm	Not established
	Canada BC	1 000 ppm	Not established
	Canada ON	1 000 ppm	Not established
	Canada QC	1 000 ppm	Not established

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH[1], OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from RTECS database[2] and data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) Refer to the ACGIH Appendix F: Mininam Oxygen Content for Asphyxia TLV Basis

Engineering Controls

Ventilation Keep airborne concentrations below the occupational exposure limits (OEL).

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection (side shields).

Skin Protection Use of protective gloves chemically resistant gloves if skin contact is likely.

Do NOT use latex rubber, polyvinyl alcohol (PVA) or PVC gloves.

Respiratory Protection For over-limit exposures up to 10 x OEL of mist, vapors, and spray, wear respirator such as a half-mask respirator.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid in Aerosol format	**Lower Flammability Limit**	Not available
Appearance	Colorless	**Upper Flammability Limit**	Not available
Odor	Fragrant, alcohol-like	**Vapor Pressure @20 °C**	Not available
Odor Threshold	Not available	**Vapor Density**	>1 (Air =1)
pH	Not available	**Relative Density @25 °C**	0.98
Freezing/Melting Point	Not available	**Solubility in Water**	Completely miscible
Initial Boiling Point [a)]	≥93 °C [199 °F]	**Partition Coefficient n-octanol/water**	Not available
Flash Point [a)]	≥50 °C [≥123 °F]	**Auto-ignition Temperature** [b)]	≥245 °C [≥473 °F]
Evaporation Rate	<1 (ButAc =1)	**Decomposition Temperature**	Not available
Flammability	Non Flammable	**Viscosity @40 °C**	<20.5 mm^2/s

a) Lowest component literature value, which corresponds to 5% propan-2-ol
b) Lowest component auto-ignition literature value

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Temperatures above 50 °C [122 °F], open flames, and incompatible substances
Incompatibilities	oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information

Summary of Effects and Symptoms by Routes of Exposure

Eyes	Low toxicity
Skin	May causes mild skin irritation.
Inhalation	Low toxicity
Ingestion	Low toxicity
Chronic	Not available

Acute Toxicity (Lethal Exposure Concentrations)

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
propan-2-ol	3 600 mg/kg Rat	12 800 mg/kg Rabbit	16 000 ppm 8 h Rat
isobutane	Not applicable	Not applicable	>570 000 ppm 4 h Rat
2-butoxyethanol	917 mg/kg Rat	220 mg/kg Rabbit	450 ppm 4 h Rat
propane	Not applicable	Not applicable	>800 000 ppm 4 h Rat

Note: Toxicity data from the RTECS[2] and ECHA databases were consulted. The data from supplier SDS were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	The 2-butoxyethanol component is classified as a skin irritant, but it is not present in sufficient concentration to trigger classification.
Serious eye damage/irritation	Propan-2-ol and and 2-butoxyethanol are severe eye irritants, but aren't present in sufficient concentration to trigger classification.
Sensitization (allergic reactions)	Based on available data, the classification criteria are not met.

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Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not met.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not met.
STOT-single exposure	Propan-2-ol is known to have narcotic effects, but it is not present in sufficient concentration to trigger classification.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (http://echa.europa.eu), and other reliable sources.

Based on available data, propan-2-ol and 2-butoxyethanol do not meet the environmental toxicant classification with LC50 and EC50 >100 mg/L.

- Propan-2-ol has a minimal LC50 96 h of 9 640 mg/L for Pimephales promelas (fathead minnow); an EC50 24 h of 5 102 mg/L Daphnia magna (water flea); and an EC50 72 h of 2 000 mg/L Desmodesmus subspicatus (green algae).
- The 2-butoxyethanol component has a minimal LC50 96 h of 220 mg/L for fish; and an EC50 24 h of 1 815 mg/L Daphnia magna (water flea).

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds

Chronic Ecotoxicity

Available toxicity data does not meet classification thresholds

Biodegradability

Not available

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Other Effects

VOC (EPA, WHIMS, and Europe) = 9% [86 g/L]

**VOC = Volatile Organic Content*

Section 13: Disposal Information

Dispose of contents in accordance with all local, regional, national, and international regulations.

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations); **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes 1 L and under **Limited Quantity** 	*FOR REFERENCE ONLY* **UN number**: UN1950 **Shipping Name:** AEROSOLS, non-flammable **Class:** 2.2 **Packing Group**: Not applicable **Marine Pollutant:** No

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 1 L and under **Limited Quantity** Maximum quantity per package 30 kg Gross 	*FOR REFERENCE ONLY* **UN number**: UN1950 **Shipping Name:** AEROSOLS, non-flammable **Class:** 2.2 **Packing Group**: Not applicable **Marine Pollutant**: No

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Sea

Refer to IMDG regulations.	
Sizes 1 L and under **Limited Quantity** 	*FOR REFERENCE ONLY* **UN number**: UN1950 **Shipping Name:** AEROSOLS, non-flammable **Class:** 2.2 **Packing Group**: Not applicable **Marine Pollutant**: No

Note: **Shipper must be appropriately <u>trained and certified</u> before involvement with the transport of dangerous goods.**

Section 15: Regulatory Information

Canada

Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

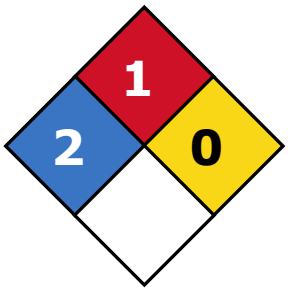
USA

Other Classifications

HMIS® RATING

HEALTH:	**2**
FLAMMABILITY:	**1**
PHYSICAL HAZARD:	**0**
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:
0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains 4% propan-2-ol (CAS# 67-63-0) which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, USA).

This product does not contain any listed substances in California.

Europe

RoHS (Restriction of Hazardous Substance Directive)

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

WEEE (Waste Electrical and Electronic Equipment Directive)

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

Prepared by the	Regulatory Affairs Department
Date of Review	28 February 2020
Supersedes	08 May 2019
Reason for Changes:	Change to emergency phone numbers.

Reference

1) ACGIH *2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices*, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TLV	Threshold Limit Value
TWA	Time Weighted Average
VOC	Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Phone: +1-905-331-1396

Mailing Addresses

Manufacturing & Support
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347–193rd Street
Surrey, British Columbia, Canada
V4N 4E7

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