

Material Safety Data Sheet

Revision Date November 9, 2010	Prepared by Patti Rogers	Technical Information 1-800-201-8822 or support@mgchemicals.com
Head Office 9347 - 193 Street, Surrey, B.C., V4N 4E7		Emergency Phone Canutech (613) 996-6666 Collect 24 hrs

For updates please download from www.mgchemicals.com or fax requests to 1-800-708-9888

Section 1: Product Identification

MSDS Code: 825 - aerosol

Name: Glass Cleaner

Related Part Numbers: 825-500G

Use: For cleaning glass, plastics, chrome, and countertops.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
N/a	Deionized water	70 – 80%	N/a	N/a	N/a
67-63-0	2-propanol	5 – 15%	400ppm	400ppm	500ppm
68476-86-8	Isobutane/propane	4 – 9%	1000ppm	800ppm	N/e
111-76-2	2-butoxyethanol	3 – 6%	25ppm	50ppm	N/e

Section 3: Hazards Identification

- Eyes:** Produces irritation, characterized by a burning sensation, redness, tearing, inflammation and possible corneal injury.
- Skin:** May cause skin irritation with pain and stinging, especially if skin is abraded.
- Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by headache and dizziness.
- Ingestion:** May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. May cause kidney damage and central nervous system depression.
- Chronic:** May cause liver and kidney damage.

Section 4: First Aid Measure

- Eyes:** Remove contact lenses. Flush with water. Get medical aid.
- Skin:** Wash skin with soap and water. Get medical aid if symptoms persist.
- Inhalation:** Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- Ingestion:** Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

- Autoignition Temperature:** 399°C **Flash Point:** 14°C **LEL / UEL:** 2 / 12
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.
- General Information:** Containers may explode in the heat of a fire.

Section 6: Accidental Release Measures

- Spill Procedure:** Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

- Handling:** Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.
- Storage:** Keep from freezing. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

- Routes of entry:** Eyes, ingestion, inhalation, and skin.
- Ventilation:** Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.
- Personal Protection:** Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Aerosol	Odor: Alcohol	Solubility: Complete	Evaporation Rate: <1 n-butyl acetate=1	
Boiling Point:	82°C	Specific Gravity: 0.98	Vapor Pressure: 38 PSI @20°C	Vapor Density: >1 (Air=1)	pH: 10.8

Section 10: Stability and Reactivity

- Stability:** Stable at normal temperatures and pressures.
- Conditions to avoid:** Temperatures over 40°C, ignition sources, and incompatible substances.
- Incompatibilities:** Strong oxidizers, acetaldehyde, chlorine, ethylene oxide, acids and isocyanates, hydrogen + palladium, nitroform, oleum, phosgene, oxygen, aluminum, aluminum triisopropoxide, trinitromethane, barium perchlorate, tetrafluoroborate, chromium trioxide, sodium dichromate + sulfuric acid.
- Polymerization:** Will not occur.
- Decomposition:** Carbon monoxide, carbon dioxide, acrid smoke and fumes.

Section 11: Toxicological Information

- Sensitization:** (effects of repeated exposure) Repeated skin contact may cause defatting of the skin resulting in dermatitis. Long-term intensive inhalation may cause benign lung fibrosis.
- Carcinogenicity:** (risk of cancer) No
- Teratogenicity:** (risk of malformation in an unborn fetus) No
- Reproductive Toxicity:** (risk of sterility) No
- Mutagenicity:** (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
Isobutane/propane	N/A	N/A	N/A	N/A
2-butoxyethanol	320 mg/kg Rabbit	700 ppm/7H Mouse	220 mg/kg Rabbit	245 ppm/6H/9D Rat
Deionized water	N/A	N/A	N/A	N/A
2-propanol	5045 mg/kg Rat	16,000 ppm/8H Rat	12,800 mg/kg Rabbit	980 mg/m ³ /24H Guinea pig

Section 12: Ecological Information

- General Information:** Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage
- Volatile Organic Compounds, % by weight: 12%
- Volatile Organic Compounds, grams per litre: 117.6 g/L

Section 13: Disposal Information

General Information: Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground Canada:

Classified as **Consumer Commodity**.

Recommend Shipper be trained and certified. Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations).

Ground USA:

Classified as **ORM-D**.

Recommend Shipper be trained and certified. Refer to USA CFR 49 Regulations (Parts 100 to 185).

Air:

Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.

UN number: **1950**, Shipping Name: **AEROSOLS, non-Flammable**, Class: **2.2**

Refer to Pkg Instr Y203. Recommend using original MG Chemicals certified outer cartons. Tape all seams on the carton. Hazard Label required – Aerosols, non-flammable. A double arrow orientation label is required and is already printed on the original outer carton.

Sea - All Sizes:

Shipper must be trained and certified. Refer to IMDG regulations.

UN number: **1950**, Shipping Name: **AEROSOLS, non-Flammable**, Class: **2.2**

Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

Section 15: Regulatory Information

CANADA

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

DSL

All ingredients in this product are listed on the Domestic Substances List

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling regulations.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance.

WHMIS

This product belongs to the following categories: **A, D1A, D2B**

USA

CAA (Clean Air Act, USA)

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product does not contain any chemicals listed as hazardous air pollutants.

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

This product contains (CAS # 67-63-0 2-Propanal 5%) a toxic chemicals 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

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

This product contains (CAS # 67-63-0 2-Propanal 5%) a chemical 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.

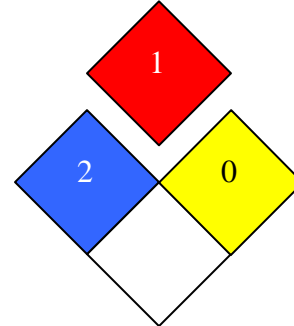
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)
This product does not contain chemicals known to the state to cause reproductive toxicity or cancer.

HMIS RATING

HEALTH:	2
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
PERSONAL PROTECTION: (PPE)	H

Protection=H (Splash goggles, gloves, protective apron and vapor respirator.)

NFPA RATING



EUROPE

RoHS

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

WEEE

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

Section 16: Other Information

Definitions: N/a = not applicable, n/e = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.