




# Material Safety Data Sheet

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1"> <tr> <td>Health Hazard</td> <td>1</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	 	
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Issuing Date 30-Mar-2009

Revision Date 05-Mar-2009

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**GREAT VALUE**

**Product Name**

**GV Glass Cleaner**

**Recommended Use**

Window/surface cleaner.

**Supplier Address**

KIK International  
33 MacIntosh Blvd, Concord, Ontario,  
L4K 4L5  
CA  
Phone:905-660-0444  
Fax:905-660-7333  
Contact:Scott Walker  
Contact Phone:1-479-845-2750  
Emergency Phone: 1-800-424-9300

**Distributor**

Wal-Mart Stores Incorporated  
Bentonville, AR USA 72716

**Company Emergency Phone Number** 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**CAUTION!**

### Emergency Overview

May be harmful if swallowed  
May cause skin and eye irritation

**Appearance** Blue

**Physical State** Liquid.

**Odor** Ammoniacal

**Potential Health Effects**

**Principle Routes of Exposure**

Inhalation, Skin contact, Eye contact.

**Acute Toxicity**

**Eyes**

May cause irritation.

**Skin**

May cause irritation.

**Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Ingestion**

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Effects**

Prolonged skin contact may defat the skin and produce dermatitis.

**Aggravated Medical Conditions**

Skin disorders.

**Environmental Hazard**

See Section 12 for additional Ecological Information.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Water	7732-18-5	60 - 100
Butoxyethanol	111-76-2	1 - 5
D-Glucopyranose, oligomeric, C6-12-alkyl glycosides	113976-90-2	0.1 - 1
Ammonium hydroxide	1336-21-6	0.1 - 1
Propylene glycol monomethyl ether	107-98-2	0.1 - 1
Edta	60-00-4	0.1 - 1
Sodium hydroxide	1310-73-2	< 0.1
Dyes, n.o.s.	RR-02861-5	< 0.1

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Notes to Physician</b>	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	Not applicable.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Hazardous Combustion Products</b>	Carbon oxides
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 0	<b>Stability</b> 0	<b>Physical and Chemical Hazards</b> -
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**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Avoid contact with eyes.

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**Storage** Keep container tightly closed. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propylene glycol monomethyl ether 107-98-2	STEL = 150 ppm TWA: 100 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 540 mg/m <sup>3</sup> STEL: 150 ppm
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 240 mg/m <sup>3</sup> TWA: 50 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) S* S*	IDLH: 700 ppm TWA: 24 mg/m <sup>3</sup> TWA: 5 ppm

*NIOSH IDLH: Immediately Dangerous to Life or Health*

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**

**Eye/Face Protection**  
**Skin and Body Protection**  
**Respiratory Protection**

Safety glasses with side-shields.  
Protective gloves.  
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Blue.	<b>Odor</b>	Ammoniacal.
<b>Odor Threshold</b>	No information available	<b>Physical State</b>	Liquid
<b>pH</b>	11		
<b>Flash Point</b>	Not applicable.	<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available	<b>Boiling Point/Range</b>	No information available
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>Water Solubility</b>	Soluble in water	<b>Solubility</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available	<b>VOC Content</b>	Not applicable
<b>Partition Coefficient: n-octanol/water</b>			

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Acids. Strong oxidizing agents.
<b>Conditions to Avoid</b>	Excessive heat.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Ammonia.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

**Product Information**

**Irritation** May cause eye/skin irritation (based on pH).

**LD50 Oral VALUE (mg/kg)** >5000 mg/kg (rat) estimated

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Edta	1700 mg/kg ( Rat )	-	-
Propylene glycol monomethyl ether	5200 mg/kg ( Rat )	13000 mg/kg ( Rabbit )	54.6 mg/L ( Rat ) 4 h 24 mg/L ( Rat ) 1 h
Ammonium hydroxide	350 mg/kg ( Rat )	-	-
Sodium hydroxide	-	1350 mg/kg ( Rabbit )	-
Butoxyethanol	470 mg/kg ( Rat )	220 mg/kg ( Rabbit ) 2270 mg/kg ( Rat )	2.21 mg/L ( Rat ) 4 h 450 ppm ( Rat ) 4 h

Chronic Toxicity

**Chronic Toxicity** Prolonged skin contact may defat the skin and produce dermatitis.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Butoxyethanol	A3			

**ACGIH: (American Conference of Governmental Industrial Hygienists)**  
A3 - Animal Carcinogen

**Target Organ Effects** Blood, Central nervous system (CNS), Eyes, Hematopoietic System, Kidney, Liver, Respiratory system, Skin.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Ecotoxicity effects of component substances.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Butoxyethanol		LC50= 2950 mg/L Lepomis macrochirus 96 h		LC50 1698 - 1940 mg/L 24 h EC50 = 1720 mg/L 24 h
Ammonium hydroxide		LC50= 8.2 mg/L Pimephales promelas 96 h		EC50 = 0.66 mg/L 48 h
Propylene glycol monomethyl ether		LC50 4600 - 10000 mg/L Leuciscus idus 96 h LC50= 20.8 g/L Pimephales promelas 96 h		EC50 = 10457 mg/L 96 h
Edta	h EC50 72 1.01 mg/L	LC50= 41 mg/L Lepomis macrochirus 96 h LC50= 59.8 mg/L Pimephales promelas 96 h		EC50 > 100 mg/L 96 h
Sodium hydroxide		LC50= 45.4 mg/L Oncorhynchus mykiss 96 h		

**Mobility** Will likely be mobile in the environment due to its water solubility.

Chemical Name	Log Pow
Butoxyethanol	25
Propylene glycol monomethyl ether	0.437

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Dispose of in accordance with local regulations.

**California Hazardous Waste Codes** 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Ammonium hydroxide	Toxic; Corrosive
Sodium hydroxide	Toxic; Corrosive

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

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<b>14. TRANSPORT INFORMATION</b>
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<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Does not Comply
<b>EINECS/ELINCS</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>IECSC</b>	Does not Comply
<b>KECL</b>	Does not Comply
<b>PICCS</b>	Complies
<b>AICS</b>	Does not Comply

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372: .

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium hydroxide	1336-21-6	0.1 - 1	1.0
Butoxyethanol	111-76-2	1 - 5	1.0

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Edta				X
Ammonium hydroxide	1000 lb			X
Sodium hydroxide	1000 lb			X

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Edta	60-00-4	0.1 - 1		Group V		

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Propylene glycol monomethyl ether	107-98-2	0.1 - 1		Group I		
Butoxyethanol	111-76-2	1 - 5	Present (includes mono- and di- ethers of ethylene glycol, diethylene glycol, and triethylene glycol, except Ethylene glycol monobutyl ether [EGBE]. See 40 CFR 63.62 for Redefinition of glycol ethers listed as hazardous air pollutants and 40 CFR 63.63 fo	Group I		

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Edta	5000 lb	
Ammonium hydroxide	1000 lb	
Sodium hydroxide	1000 lb	

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol monomethyl ether	X	X	X		X
Ammonium hydroxide	X	X	X		
Sodium hydroxide	X	X	X		X

**International Regulations**

**Mexico - Grade** Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Sodium hydroxide		Mexico: Ceiling= 2 mg/m <sup>3</sup>

**Canada**

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

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

**Issuing Date** 30-Mar-2009



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**Revision Date** 05-Mar-2009

**Revision Note** No information available

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**