



# Material Safety Data Sheet

Issuing date 11-Oct-2011

Revision Date 11-Oct-2011

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Swisher Glass Kleen  
**Product code** 41896-1  
**UN/ID No** NA 1993  
**Recommended Use** Concentrated Glass Cleaner

**Distributor**  
Swisher Hygiene Inc.  
4725 Piedmont Row Drive,  
Suite 400,  
Charlotte, NC 28210

**Chemical Emergency Phone Number** 800-424-9300 (Chemtrec)

**Company Emergency Phone Number** 800-444-4138

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** Thin Liquid

**Physical state** liquid.

**Odor** Ammonia

### Potential Health Effects

#### Acute toxicity

**Eyes** Contact irritation and tearing.  
**Skin** Prolonged skin contact may cause skin irritation  
**Inhalation** Irritating to respiratory system  
**Ingestion** Gastro intestinal irritaiton, if swallowed nausea and headache

**Chronic Effects** No known effect based on information supplied

**Aggravated Medical Conditions** Pre-existing skin disorders, eye problems or impaired respiratory function.

**Environmental hazard** See Section 12 for additional Ecological Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
2-Butoxyethanol	111-76-2	<8
Ethyl alcohol	64-17-5	<48

Isopropyl alcohol	67-63-0	<8
Ammonia	7664-41-7	<2

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.
<b>Skin contact</b>	Wash with water after exposure. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. Get medical attention if irritation persists.
<b>Ingestion</b>	Drink large amounts of water. Do not induce vomiting. Consult physician immediately for additional advice and treatment.
<b>Notes to physician</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	FLAMMABLE			
<b>Flash point</b>	80 °F			
<b>Suitable Extinguishing Media</b>	Water Fog, Foam, CO2 or Dry Chemical.			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	none			
<b>Sensitivity to Static Discharge</b>	none			
<b>Protective Equipment and Precautions for Firefighters</b>	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> 2	<b>Flammability</b> 3	<b>Stability</b> 0	<b>Physical and chemical hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 3	<b>Physical Hazard</b> 0	<b>Personal protection</b> -

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation.
<b>Environmental precautions</b>	Try to prevent the material from entering drains or water courses.
<b>Methods for Containment</b>	Transfer contaminated absorbent, soil and other materials to containers for disposal.
<b>Methods for cleaning up</b>	Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills should be recovered for disposal.

#### 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	KEEP OUT OF REACH OF CHILDREN. Open containers slowly to relieve any pressure. Empty containers may contain product residue. All safety precautions taken when handling this product should also be taken when handling empty drums and containers.
<b>Technical measures/Storage conditions</b>	Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines** Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Ammonia 7664-41-7	STEL: 35 ppm TWA: 25 ppm	TWA: 50 ppm TWA: 35 mg/m <sup>3</sup>	IDLH: 300 ppm TWA: 25 ppm TWA: 18 mg/m <sup>3</sup> STEL: 35 ppm STEL: 27 mg/m <sup>3</sup>

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment Institutional Environment**

**Eye/Face Protection** Safety glasses are suggested when using this product in heavy use and institutional environments.

**Consumer Environments** Care should be taken to avoid Eye contact.

**Skin and body protection** Rubber gloves

**Respiratory protection** Unnecessary in open institutional enviroment.

**Hygiene measures** Practice good personal hygiene. Wash after handling.

**Personal Protective Equipment Industrial Environment**

**Eye/Face Protection** Splash-proof chemical goggles or face shield.

**Skin and body protection** Impervious rubber, alkali-proof protective gloves Impervious rubber boots & apron.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Practice good personal hygiene. Wash after handling. Shower at end of work period  
Practice good personal hygiene. Wash after handling

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid		
<b>Appearance</b>	Thin Liquid	<b>Odor</b>	Ammonia
<b>Color</b>	blue	<b>Odor Threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Methods</b>
<b>pH</b>	11.5-0.3	No information available	
<b>Melting/freezing point</b>	Liquid	No information available	
<b>Freezing Point</b>		No information available	
<b>Boiling point/boiling range</b>	212 °F	No information available	
<b>Flash Point</b>		No information available	
<b>Evaporation rate</b>	1.6	No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
upper flammability limit			
lower flammability limit			

**Explosion Limits**

upper		
lower		
Vapor pressure	Same as water	No information available
Vapor density	Same as water	No information available
Specific Gravity	0.82	No information available
Water solubility	completely soluble	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	No information available	
Oxidizing Properties	No information available	

**9.2 Other information**

Softening point	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

**10. STABILITY AND REACTIVITY**

Stability	Stable
Incompatible products	Strong Oxidizers
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	None known based on information supplied
Hazardous Polymerization	Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-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
Ethyl alcohol	7060 mg/kg ( Rat )		124.7 mg/L ( Rat ) 4 h
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h
Ammonia	350 mg/kg ( Rat )		2000 ppm ( Rat ) 4 h 5.1 mg/L ( Rat ) 1 h

**Chronic toxicity**

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		
Ethyl alcohol	A3	Group 1	Known	X

Isopropyl alcohol		Group 1 Group 3		X
-------------------	--	--------------------	--	---

**Target Organ Effects** None known.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2-Butoxyethanol		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 >1000: 48 h Daphnia magna mg/L EC50
Ethyl alcohol		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50
Isopropyl alcohol	1000: 72 h Desmodemus subspicatus mg/L EC50 1000: 96 h Desmodemus subspicatus mg/L EC50	11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50
Ammonia		0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 0.44: 96 h Cyprinus carpio mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 1.19: 96 h Poecilia reticulata mg/L LC50 static 5.9: 96 h Pimephales promelas mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50		25.4: 48 h Daphnia magna mg/L LC50

Chemical Name	log Pow
2-Butoxyethanol	0.81
Ethyl alcohol	0
Isopropyl alcohol	0.05
Ammonia	0

## 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

Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic Ignitable
Isopropyl alcohol	Toxic Ignitable

#### 14. TRANSPORT INFORMATION

<b>Note</b>	NA1993, Flammable Liquids, N. O. S. (contains Ethyl Alcohol), 173.150 Consumer Commodity ORM-D, 3, PG III
<b>Dot</b>	Not regulated
<b>Proper shipping name</b>	NA1993, Flammable Liquids, N. O. S. (contains Ethyl Alcohol), 173.150 Consumer Commodity ORM-D, 3, PG III
<b>Hazard class</b>	3
<b>UN/ID No</b>	NA 1993
<b>Packing Group</b>	III
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>ICAO/IATA</b>	Not regulated
<b>IMDG / IMO</b>	Not regulated
<b>RID</b>	Not regulated
<b>ADR/RID</b>	Not regulated
<b>ADN</b>	Not regulated

#### 15. REGULATORY INFORMATION

##### International Inventories

<b>TSCA</b>	TSCA
<b>DSL</b>	Complies
<b>NDSL</b>	Complies
<b>EINECS</b>	Complies
<b>ELINCS</b>	-
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

##### U.S. Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	no
<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 does not contain any substances regulated as 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
Ammonia	100 lb			X

**CERCLA**

Any components listed below have been assigned a reportable quantity (RQ) by the Federal EPA. Release of the product into the environment that exceed the RQ for a particular component must be reported to the National Response Center at 1-800-424-8802.

COMPONENT: Ammonia 100 lbs

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ammonia	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Ethyl alcohol	Carcinogen Developmental

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

Chemical Name	Carcinogen Status	Exposure Limits
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m <sup>3</sup> Mexico: STEL 75 ppm Mexico: STEL 360 mg/m <sup>3</sup>
Ethyl alcohol		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m <sup>3</sup>
Isopropyl alcohol		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m <sup>3</sup> Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m <sup>3</sup>
Ammonia		Mexico: TWA 25 ppm Mexico: TWA 18 mg/m <sup>3</sup> Mexico: STEL 35 ppm Mexico: STEL 27 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.

Chemical Name	NPRI
2-Butoxyethanol	X
Isopropyl alcohol	X

## 16. OTHER INFORMATION

**Prepared By** Swisher Hygiene Inc.  
4725 Piedmont Row Drive  
Suite 400  
Charlotte, NC 28210

**Issuing date** 11-Oct-2011  
**Revision Date** 11-Oct-2011  
**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 Material Safety Data Sheet**