

Material Safety Data Sheet

Revision Date 18-Oct-2011 Version 1 Issuing date 18-Oct-2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Glass Cleaner

Product code 41825 UN1950 **UN/ID No**

Aerosol Glass Cleaner **Recommended Use**

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

Aerosol. CONTENTS UNDER PRESSURE

Prolonged exposure may cause chronic effects. May be ignited by heat, sparks or flames

Appearance Compressed liquefied gas. Physical state liquid. Odor Butyl Odor

Potential Health Effects

Principle Routes of Exposure Skin contact Ingestion

Acute toxicity

Health injuries are not known or expected under normal use. **Eyes**

Skin May be harmful if absorbed through skin Frequent or prolonged contact may defat and dry

the skin, leading to discomfort and dermatitis

Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Inhalation Exposure by ingestion of an aerosol is unlikely Components of the product may be Ingestion

absorbed into the body by ingestion

Chronic Effects Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be

harmful if absorbed through skin. Liver injury may occur. Kidney injury may occur. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis.

Main Symptoms Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver enlargement. Jaundice.

Defatting of the skin. Skin irritation.

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Aggravated Medical Conditions None known.

Interactions with Other Chemicals 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated

and prolonged and may cause blood damage. These effects have not been observed in

humans.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight %
N-Butane	106-97-8	1-3
2-Butoxyethanol	111-76-2	1-3
Ethyl alcohol	64-17-5	1-3
Propane	74-98-6	1-3

4. FIRST AID MEASURES

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops or persists.

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get

medical attention if irritation develops and persists.

Inhalation Remove to fresh air. Seek medical attention if symptoms persist.

If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If Ingestion

ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under

observation.

5. FIRE-FIGHTING MEASURES

Heat may cause the containers to explode. Vapor or gas may spread to distant ignition Flammable Properties

sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Flash point -156 °F -104.4 °C Flash point

Suitable Extinguishing Media Water Fog, Foam, CO2 or Dry Chemical.

Hazardous Combustion Products Irritants. Toxic gas.

Explosion Data

Sensitivity to Mechanical Impact none Sensitivity to Static Discharge none

Protective Equipment and Precautions for Firefighters In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up Move containers from fire area if you can do it without risk For massive fire in cargo area, use unmanned hose holder or monitor nozzles,

if possible. If not, withdraw and let fire burn out

NFPA Health Hazard 0 Flammability 0 Stability 0 Physical and chemical

hazards -

HMIS Health Hazard 1 Flammability 2 Physical Hazard 0 Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation

Environmental precautionsTry to prevent the material from entering drains or water courses

Methods for Containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer,

basements or confined areas.

Methods for cleaning up Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly

to remove residual contamination.

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN Pressurized container: Do not pierce or burn, even

after use. DO NOT handle, store or

open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is

missing or defective. Do not re-use empty containers. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear

personal protective equipment. Avoid prolonged exposure

Technical measures/Storage conditions

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-Butane 106-97-8	TWA: 1000 ppm		TWA: 800 ppm TWA: 1900 mg/m ³
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³

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 environment.

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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 protecetive 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.

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

Practice good personal hygiene. Wash after handling

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid

Appearance Compressed liquefied gas. Odor **Butyl Odor**

Color colorless **Odor Threshold** No information available

Values Remarks Methods Property

9.5-10.5 No information available pН

No information available Melting/freezing point **Freezing Point** No information available

Boiling point/boiling range 96.1 °C 204.8 °F No information available -104.4 °C -156 °F No information available **Flash Point** No information available **Evaporation rate**

Flammability (solid, gas) No information available 3.2733 kJ/g

Flammability Limits in Air No information available upper flammability limit lower flammability limit

Explosion Limits

upper lower

Vapor pressure No information available

Vapor density No information available **Specific Gravity** 0.9605 No information available

Water solubility completely soluble No information available No information available

Solubility in other solvents

Partition coefficient: n-octanol/water No information available No information available **Autoignition temperature**

No information available **Decomposition temperature** No information available Viscosity, kinematic Viscosity, dynamic

No information available **Explosive properties Oxidizing Properties** No information available

9.2 Other information

No information available Softening point No information available **Molecular Weight VOC Content(%)** No information available

0.9604 g/cm3 **Density VALUE**

No information available **Bulk Density VALUE**

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products

None known based on information supplied

Conditions to Avoid Heat, flames and sparks

Hazardous Decomposition Products Irritants. Toxic gas.

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
N-Butane			658 mg/L (Rat) 4 h
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
Propane			658 mg/L (Rat) 4 h

Chronic toxicity

Chronic toxicity Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be

harmful if absorbed through skin. Liver injury may occur. Kidney injury may occur. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis.

Carcinogenicity Hazardous by OSHA criteria.

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

Reproductive toxicity Hazardous by OSHA criteria. Possible reproductive hazard.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to	Toxicity to daphnia and
			microorganisms	other aquatic invertebrates
2-Butoxyethanol		1490: 96 h Lepomis		1698 - 1940: 24 h Daphnia
		macrochirus mg/L LC50		magna mg/L EC50 >1000:
		static 2950: 96 h Lepomis		48 h Daphnia magna mg/L
		macrochirus mg/L LC50		EC50
Ethyl alcohol		12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30 min	10800: 24 h Daphnia magna
		Oncorhynchus mykiss mL/L	EC50 = 35470 mg/L 5 min	mg/L EC50 2: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L EC50 Static
		96 h Pimephales promelas		9268 - 14221: 48 h Daphnia
		mg/L LC50 flow-through 100:		magna mg/L LC50
		96 h Pimephales promelas		
		mg/L LC50 static		

Chemical Name	log Pow
N-Butane	2.89
2-Butoxyethanol	0.81
Ethyl alcohol	0
Propane	2.3

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material

to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Contaminated packaging Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

Note UN1950, Aerosols Flammable, LTD QTY, 2.1

Dot Regulated

Proper shipping name UN1950, Aerosols Flammable, LTD QTY, 2.1

UN/ID No UN1950

TDG Not regulated

MEX Not regulated

ICAO Not regulated

ICAO/IATA Not regulated

IMDG / IMO Not regulated

RID Not regulated

ADR/RID Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA TSCA
DSL Complies
NDSL Complies
EINECS Complies

ELINCS -

ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS 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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

111-76-2 2-Butoxyethanol

1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)

SARA 311/312 Hazard Categories

Acute Health HazardnoChronic Health HazardnoFire HazardYesSudden Release of Pressure HazardYesReactive Hazardno

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).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethanol 111-76-2 Present Ethyl Alcohol 64-17-5 Present n-Butane 106-97-8 Present Propane 74-98-6 Present

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International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
N-Butane		Mexico: TWA 800 ppm Mexico: TWA 1900
		mg/m³
2-Butoxyethanol		Mexico: TWA 26 ppm Mexico: TWA 120
		mg/m³
		Mexico: STEL 75 ppm Mexico: STEL 360
		mg/m³
Ethyl alcohol		Mexico: TWA 1000 ppm Mexico: TWA 1900
		mg/m³

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

16. OTHER INFORMATION

Prepared By Swisher Hygiene Inc.

4725 Piedmont Row Drive

Suite 400

Charlotte, NC 28210

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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