# SWISHER

# **Material Safety Data Sheet**

Issuing date 10-Nov-2011 Revision Date 10-Nov-2011 Version 1

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Healthcare Disinfectant

Product code 41824

Recommended Use Aerosol- Disinfectant

**EPA Registration Number** 706-69-72802

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

**FLAMMABLE** 

Harmful in contact with eyes

Can cause adverse reproductive effects - such as birth defects, miscarriage, or infertility. Cancer hazard. Prolonged

exposure may cause chronic effects

Appearance Compressed liquefied gas. Physical state liquid. Odor Fruity, Alcoholic

**Potential Health Effects** 

**Acute toxicity** 

**Eyes** Moderately irritating to the eyes

Skin HARMFUL IF ABSORBED THROUGH SKIN Repeated or prolonged skin contact may

cause allergic reactions with susceptible persons

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

Components of the product may be absorbed into the body by ingestion.

Chronic Effects Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver injury may

occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis. May cause delayed lung injury.

Aggravated Medical Conditions Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin).

Coughing. Liver enlargement. Jaundice. Defatting of the skin. Skin irritation. Corneal

damage.

Environmental hazard See Section 12 for additional Ecological Information

#### 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	15-20
Ethyl alcohol	64-17-5	40-50
Methyl alcohol	67-56-1	1-3
Propane	74-98-6	5-8

#### 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 immediately.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Inhalation If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration

is greater than the TLV or health effects are noticed), immediately remove the affected

person(s) to fresh air. Get medical attention if symptoms persist.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control center.

Notes to physician Keep victim under observation

#### 5. FIRE-FIGHTING MEASURES

Flammable Properties FLAMMABLE

Flash point -156 °F -104.4 °C

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

Hazardous Combustion Products May include Nitrous Oxide.

**Explosion Data** 

Sensitivity to Mechanical Impact none Sensitivity to Static Discharge none

Specific hazards arising from the

chemical

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may

cause fire or explosion hazard.

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.

NFPA Health Hazard 0 Flammability 0 Stability 0 Physical and chemical

hazards -

HMIS Health Hazard 1 Flammability 3 Physical Hazard 0 Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation

**Environmental precautions**Try to prevent the material from entering drains or water courses

Methods for Containment Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak

is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal 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 Pressurized container: Do not pierce or burn, even after use. 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. Do not get this material in contact with eyes. Avoid breathing

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

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. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal

feedingstuffs. Level 2 Aerosol.

### 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/m³
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>
Methyl alcohol 67-56-1	STEL: 250 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup>	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m³

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 Hygiene measures**Unnecessary in open institutional enviroment.
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.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

> > No information available

No information available

No information available No information available

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 Compressed liquefied gas. Fruity Alcoholic **Appearance** Odor

Color No information available **Odor Threshold** No information available

**Property Values Remarks Methods** 

9.5-10.5 No information available

Melting/freezing point No information available

**Freezing Point** No information available

Boiling point/boiling range 57-8 °C 136.4 °F No information available **Flash Point** -104.4 °C -156 °F No information available

No information available **Evaporation rate** Flammability (solid, gas) No information available

Flammability Limits in Air No information available upper flammability limit

lower flammability limit

**Explosion Limits** 

upper lower

No information available Vapor pressure 75-90 No information available Vapor density 0.7516 **Specific Gravity** No information available 0.7517 Water solubility No information available Partially No information available

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition temperature **Decomposition temperature** Viscosity, kinematic

Viscosity, dynamic

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

9.2 Other information

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

# 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions

Incompatible products Strong oxidizing agents

**Conditions to Avoid** Heat, flames and sparks

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Hazardous Decomposition Products May include Nitrous Oxide.

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.

LD50 Dermal: 12919 mg/kg estimated, Rat, Dermal LC50 Inhalation: 23 mg/l/4h estimated, Rat, Inhalation

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-Butane			658 mg/L (Rat) 4 h
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
Methyl alcohol	5628 mg/kg (Rat)	15800 mg/kg(Rabbit)	64000 ppm (Rat) 4 h 83.2 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). Liver injury may

occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and

dermatitis. May cause delayed lung injury.

Carcinogenicity IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol 64-17-5 Monograph 100E [in preparation] (in alcoholic beverages);

Monograph 96 [in

preparation] (in alcoholic beverages)

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	X

Reproductive toxicity Reproductive effects Hazardous by OSHA criteria. Possible reproductive hazard. Can

cause adverse reproductive effects -such as birth defects, miscarriages, or infertility.

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
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		

Methyl alcohol	13500 - 17600:	: 96 h EC50 = 39000 mg/L 25 min
	Lepomis macrochir	irus mg/L   EC50 = 40000 mg/L 15 min
	LC50 flow-through	n 18 - 20:   EC50 = 43000 mg/L 5 min
	96 h Oncorhynchus	us mykiss
	mL/L LC50 static 1	19500 -
	20700: 96 h Oncorl	rhynchus
	mykiss mg/L L0	_C50
	flow-through 2820	00: 96 h
	Pimephales promel	elas mg/L
	LC50 flow-through 1	100: 96 h
	Pimephales promel	elas mg/L
	LC50 static	c

Chemical Name	log Pow
N-Butane	2.89
Ethyl alcohol	0
Methyl alcohol	0
Propane	2.3

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Contents under pressure. Dispose of this material and its container to hazardous or special

waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable

waste, D001. Dispose in accordance with all applicable regulations.

Contaminated packaging Do not re-use empty containers

**US EPA Waste Number** D001: Waste Flammable material with a flash point <140 F

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol - 67-56-1		Included in waste stream:		U154
		F039		

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

# 14. TRANSPORT INFORMATION

Note Consumer Commodity, ORM-D

**Dot** Regulated

Proper shipping name Consumer Commodity, ORM-D

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
DSL
Complies
NDSL
Complies
EINECS
Complies
Complies
Complies

ENCS
Complies
IECSC
KECL
PICCS
AICS
Complies
Complies
Complies
Complies
Complies
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**

Methanol 67-56-1 1.0% de Minimus concentration.

### SARA 311/312 Hazard Categories

Acute Health Hazard no
Chronic Health Hazard no
Fire Hazard Yes
Sudden Release of Pressure Hazard Yes
Reactive Hazard 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).

#### **CERCLA**

Methanol: 5000.0000

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol	5000 lb		RQ 5000 lb final RQ RQ 2270 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

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

Ethyl alcohol 64-17-5 Present Methanol 67-56-1 Environmental hazard n-Butane 106-97-8 Present Propane 74-98-6 Present

#### International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
N-Butane		Mexico: TWA 800 ppm Mexico: TWA 1900
		mg/m³
Ethyl alcohol		Mexico: TWA 1000 ppm Mexico: TWA 1900
		mg/m³
Methyl alcohol		Mexico: TWA 200 ppm Mexico: TWA 260
		mg/m³
		Mexico: STEL 250 ppm Mexico: STEL 310
		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
Methyl alcohol	X

# **16. OTHER INFORMATION**

Prepared By Swisher Hygiene Inc.

4725 Piedmont Row Drive

Suite 400

Charlotte, NC 28210

Issuing date 10-Nov-2011 Revision Date 10-Nov-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**