



# Material Safety Data Sheet

Issuing date 27-Dec-2011

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Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Swisher PureDet  
**Product code** 42140-5  
**Reference number(s)** 42140-15/ 42140-55  
**Recommended Use** Laundry Detergent

### **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**

This product contains substances which at their given concentration, are considered to be hazardous to health.

**Appearance** Clear Liquid

**Physical state** liquid.

**Odor** Citrus

### **Potential Health Effects**

#### **Acute toxicity**

**Eyes**

Severely irritating to eyes

**Skin**

Contact can cause mild irritation of the skin Skin absorption is possible upon prolonged contact

**Inhalation**

Short term inhalation toxicity is moderate. Inhalation of higher concentration may cause central nervous system depression, blood in urine, difficulty breathing, blood abnormalities, kidney and liver damage, and death.

**Ingestion**

Small amount is not likely to cause harmful effects. Large amounts may cause central nervous system depression, blood abnormalities, kidney and liver damage, and coma.

#### **Chronic Effects**

Can be fatal by overexposure.

#### **Aggravated Medical Conditions**

Pre-existing lung disorders may be aggravated by exposure to this material.

#### **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 %
2-Butoxyethanol	111-76-2	0
Ethanol, 2-[2-(nonylphenoxy)ethoxy]-	27176-93-8	0

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Immediately flush thoroughly with cool water under low pressure for at least 15 minutes, holding lids apart and moving eye to ensure flushing of the entire surface. Call a physician.
<b>Skin contact</b>	Immediately flush area with plenty of cool water. If irritation develops, consult a physician.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. If conscious give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Seek medical attention.
<b>Notes to physician</b>	Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	FLAMMABLE
<b>Flash point</b>	Flash point > 150 °F
<b>Suitable Extinguishing Media</b>	If involved in a fire, alcohol foam, carbon dioxide, dry chemical or water fog.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	none
<b>Sensitivity to Static Discharge</b>	none
<b>Specific hazards arising from the chemical</b>	Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited at locations distant from material handling point. Never use welding torch or cutting torch on or near drum (even empty) because product can ignite explosively.
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode.
<b>NFPA</b>	Health Hazard 0      Flammability 0      Stability 0      Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 1      Flammability 1      Physical Hazard 0      Personal protection -

#### 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>	Prevent further leakage or spillage if safe to do so
<b>Methods for cleaning up</b>	Dike to contain spill and prevent entry into sewers, waterways, and low areas. Soak up pooled liquids with a suitable absorbent (e.g., clay, fullers earth, etc.) Sweep up absorbed material and dispose of in a manner approved by local, state, and federal regulations. Flush spill area with water. Contains no phosphates

#### 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice
<b>Technical measures/Storage conditions</b>	Store in a cool, well-ventilated area away from oxidizers, alkalies, heat, sparks, and open flame. Keep containers closed when not in use. Emptied containers can still be a hazard due to residual liquid and vapor.

## 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>

**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.

**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>Odor</b>	Citrus
<b>Appearance</b>	Clear Liquid	<b>Odor Threshold</b>	No information available
<b>Color</b>	purple		

Property	Values	Remarks Methods
<b>pH</b>		No information available
<b>Melting/freezing point</b>		No information available
<b>Freezing Point</b>		No information available
<b>Boiling point/boiling range</b>	> 336 °F	No information available
<b>Flash Point</b>	> 150 °F	No information available
<b>Evaporation rate</b>	< 1	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		
<b>Explosion Limits</b>		

upper		
lower		
Vapor pressure		No information available
Vapor density	> 1	No information available
Specific Gravity	1.06	No information available
Water solubility	Soluble in water	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    Strong Alkalies
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	May liberate carbon monoxide and carbon dioxide.
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

**Chronic toxicity**

**Chronic toxicity**                              Can be fatal by overexposure.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		

**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

Chemical Name	log Pow
2-Butoxyethanol	0.81

### 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

### 14. TRANSPORT INFORMATION

**Note** Compounds, Cleaning Liquid-NOIBN

**Dot** Not regulated  
**Proper shipping name** Compounds, Cleaning Liquid-NOIBN

**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**

<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>	-

**KECL** -  
**PICCS** -  
**AICS** -

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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).

#### **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.

### 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>

#### **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.

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Chemical Name	NPRI
2-Butoxyethanol	X

**16. OTHER INFORMATION**

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

**Issuing date** 27-Dec-2011

**Revision Date** 27-Dec-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**