

Material Safety Data Sheet

Issuing date 07-Oct-2011 Revision Date 24-Oct-2011 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Hercules

Product code 41740-1 Reference number(s) 41740-5

Recommended Use Heavy Duty All Purpose Cleaner Wax Stripper & Degreaser

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

Repeated or prolonged exposure may produce defatting of the skin

Appearance Clear Liquid Physical state liquid. Odor Glycol

Potential Health Effects

Acute toxicity

Eyes Corrosive. Contact may cause severe eye damage

Skin Corrosive; may produce burns. Prolonged contact may result in burns and ulcerations. Its

harmful if absorbed through the skin.

Inhalation Hazardous in case of inhalation. May cause respiratory tract irritation. Liquid or spray mist

may produce tissue damage on mucous membranes of eyes mouth and respiratory tract.

Ingestion Can cause nausea and burns to mouth, throat and stomach.

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions None known.

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 %
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2-Butoxyethanol	111-76-2	<10
Potassium hydroxide	1310-58-3	<3
Tetrasodium EDTA	64-02-8	<1
Sodium metasilicate	6834-92-0	<2
Tetrapotassium pyrophosphate	7320-34-5	<2

4. FIRST AID MEASURES

Eye contact Flush with flowing water for 15 minutes & see physician.

Skin contact Wash contaminated area with soap or mild detergent. Remove contaminated clothing and

shoes. Wash clothing before reuse. Get medical attention.

Inhalation Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get

medical help.

Ingestion If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than

hips to help prevent aspiration. Never give anything by mouth to an unconscious person.

Get medical attention at once.

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash point none

Explosion Data

Sensitivity to Mechanical Impact none Sensitivity to Static Discharge none

Protective Equipment and Precautions for Firefighters

use water vapor, foam or fog. Firefighters should wear proper protective equipment.

NFPA Health Hazard 0 Flammability 0 Stability 0 Physical and chemical

hazards -

HMIS Health Hazard 2 Flammability 0 Physical Hazard 0 Personal protection X

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation

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

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

Methods for cleaning up

Absorb with an inert material and put spilled material in appropriate waste disposal Wear

appropriate protective equipment

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN Avoid contact with skin, eyes and clothing Avoid

breathing vapors or mists Keep container closed Wash thoroughly after handling

Technical measures/Storage

conditions

Keep containers tightly closed in a cool, well-ventilated place Store away from incompatible

materials

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 ³ S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Potassium hydroxide 1310-58-3	2 mg/m³	2 mg/m³	Ceiling: 2 mg/m ³
Sodium metasilicate 6834-92-0		2mg/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 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 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.

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

Physical state liquid

upper flammability limit

AppearanceClear LiquidOdorGlycol

ColorOdor ThresholdNo information available

Values Remarks Methods **Property** 13.1-13.5 pН No information available Melting/freezing point No information available No information available **Freezing Point** Boiling point/boiling range 212 °F No information available No information available Flash Point **Evaporation rate >**1 No information available Flammability (solid, gas) No information available No information available Flammability Limits in Air

Explosion Limits

lower flammability limit

upper lower

Vapor pressure No information available Vapor density No information available 1.05-1.09 No information available **Specific Gravity** 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 Viscosity, kinematic

No information available No information available

Viscosity, dynamic

Explosive properties No information available Oxidizing Properties No information available

9.2 Other information

Softening pointNo information availableMolecular WeightNo information available

VOC Content(%) 8

Density VALUE No information available Bulk Density VALUE No information available

10. STABILITY AND REACTIVITY

Stability Stable

Incompatible products Oxidizing agents Strong acids

Conditions to Avoid None known based on information supplied

Hazardous Decomposition Products Carbon monoxide (CO) Carbon dioxide (CO₂)

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 Oral VALUE (mg/kg) 1746 mg/kg Rat LD50 Dermal VALUE 680 mg/kg Rabbit

LC50 Inhalation (VAPOR) VALUE 450 ppm 4 hours Rat female

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (2.21 mg/L (Rat) 4 h 450 ppm (
		Rat)	Rat) 4 h
Potassium hydroxide	214 mg/kg (Rat)		
Tetrasodium EDTA	10 g/kg (Rat)		
Sodium metasilicate	600 mg/kg (Rat)		
Tetrapotassium pyrophosphate		4640 mg/kg (Rabbit)	

Chronic toxicity

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
Potassium hydroxide		80: 96 h Gambusia affinis mg/L LC50 static		
Tetrasodium EDTA	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		
Sodium metasilicate		210: 96 h Brachydanio rerio mg/L LC50 210: 96 h Brachydanio rerio mg/L LC50 semi-static		216: 96 h Daphnia magna mg/L EC50
Tetrapotassium pyrophosphate		100: 96 h Oncorhynchus mykiss mg/L LC50		

Chemical Name	log Pow
2-Butoxyethanol	0.81
Potassium hydroxide	0.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Liquid wastes are not permitted in landfill. Consult local, state, and federal agencies for

proper disposal in your

area.

Contaminated packaging Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic Corrosive

14. TRANSPORT INFORMATION

Note corrosive liquid n.o.s. (potassium hydroxide)

Dot Regulated

Proper shipping name corrosive liquid n.o.s. (potassium hydroxide)

TDG Not regulated

MEX Not regulated

ICAO Not regulated

ICAO/IATA

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

SARA 313 toxic chemical notification and release reporting - regulated substance: 2-butoxy ethanol

SARA 311/312 Hazard Categories

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

Chemical Name		CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxi	е	1000 lb			Х

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.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65

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/m³
		Mexico: STEL 75 ppm Mexico: STEL 360
		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

 Issuing date
 07-Oct-2011

 Revision Date
 24-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

This product does not contain any Proposition 65 chemicals.