



# Material Safety Data Sheet

Issuing date 22-Sep-2011

Revision Date 28-Sep-2011

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Swisher Multi-Temp Detergent  
**Product code** 40012-1  
**Reference number(s)** 40012-5/ 40012-15  
**UN/ID No** UN1719  
**Recommended Use** Heavy Duty T.D.S. Machine 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

(Contains potassium hydroxide, sodium hydroxide)

**Appearance** Thin Liquid

**Physical state** liquid.

**Odor** Mild

### Potential Health Effects

#### Acute toxicity

**Eyes**

Severe Burns.

**Skin**

Severe burns.

**Inhalation**

Severe burns to musous membranes.

**Ingestion**

Severe burns.

**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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Potassium hydroxide	1310-58-3	<20
Sodium hydroxide	1310-73-2	<20

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin contact</b>	Wash with soap & water for 15 minutes. See physician if burning persists.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.
<b>Ingestion</b>	Give milk or water to dilute material; DO NOT induce vomiting. Avoid alcohol. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY; NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
<b>Notes to physician</b>	Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash point</b>	Not determined.
<b>Suitable Extinguishing Media</b>	Use water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.
<b>Hazardous Combustion Products</b>	If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.
<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>	Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.
<b>Protective Equipment and Precautions for Firefighters</b>	Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.
<b>NFPA</b>	<b>Health Hazard</b> 0 <b>Flammability</b> 0 <b>Stability</b> 0 <b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard</b> 3 <b>Flammability</b> 0 <b>Physical Hazard</b> 1 <b>Personal protection</b> D

#### 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>	Neutralize with dilute acid or sodium bicarbonate.
<b>Methods for cleaning up</b>	Mop up & flush to sewer with plenty of water. Floors may be slippery. Use care to avoid falls.

#### 7. HANDLING AND STORAGE

**Advice on safe handling** Keep out of the reach of children DANGER POISON Avoid all contact Do not get in eyes, on skin or on clothing Remove and wash contaminated clothing before re-use

**Technical measures/Storage conditions** Store upright in original closed container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2		TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Thin Liquid	<b>Odor Threshold</b>	No information available
<b>Color</b>	clear red		

<u>Property</u>	<u>Values</u>	<u>Remarks Methods</u>
<b>pH</b>	14	No information available
<b>Melting/freezing point</b>		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>		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		
<b>Vapor pressure</b>	17	No information available
<b>Vapor density</b>	0.62	No information available
<b>Specific Gravity</b>	1.33	No information available
<b>Water solubility</b>	completely soluble	No information available
<b>Solubility in other solvents</b>		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**

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible products</b>	Strong acids
<b>Conditions to Avoid</b>	None known based on information supplied
<b>Hazardous Decomposition Products</b>	If burned, normal combustion products: Carbon dioxide, Carbon monoxide; Nitrous oxides.
<b>Hazardous Polymerization</b>	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
Potassium hydroxide	214 mg/kg ( Rat )		
Sodium hydroxide		1350 mg/kg ( Rabbit )	

**Chronic toxicity**

**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
Potassium hydroxide		80: 96 h Gambusia affinis mg/L LC50 static		
Sodium hydroxide		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		

Chemical Name	log Pow

Potassium hydroxide	0.83
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### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	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
<b>Contaminated packaging</b>	Do not re-use empty containers

Chemical Name	California Hazardous Waste Status
Potassium hydroxide	Toxic Corrosive
Sodium hydroxide	Toxic Corrosive

### 14. TRANSPORT INFORMATION

<b>Note</b>	Caustic alkali liquids, n.o.s., (Contains potassium hydroxide, sodium hydroxide), 8, UN1719, II
<b>Dot</b>	Regulated
<b>Proper shipping name</b>	Caustic alkali liquids, n.o.s.
<b>Hazard class</b>	8
<b>UN/ID No</b>	UN1719
<b>Packing Group</b>	II
<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

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/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**

SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION:  
 SODIUM HYDROXIDE, POTASSIUM HYDROXIDE

For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

### **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
Potassium hydroxide	1000 lb			X
Sodium hydroxide	1000 lb			X

### **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
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

## 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

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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.

## 16. OTHER INFORMATION

<b>Prepared By</b>	Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210
<b>Issuing date</b>	22-Sep-2011
<b>Revision Date</b>	28-Sep-2011
<b>Revision Note</b>	No information available
<b>Disclaimer</b>	

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**