Material Safety Data Sheet

Issuing date 12-Oct-2011 **Revision Date** 12-Oct-2011 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Swisher Odor Kleen**

Product code 41763-1
UN/ID No NA1993

Recommended Use Concentrated Odor Counteractant

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 Slightly Hazy Liquid **Physical state** liquid. **Odor** Fruity

Potential Health Effects

Acute toxicity

Eyes Can cause eye irritation. Splashes may cause temporary pain and blurred vision.

Skin Causes skin irritation, cracking or flaking due to dehydration and defatting action.

Inhalation Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness and possibly death.

Ingestion Dose-related central nervous system depression occurs, ranging from inebriation to anesthesia, narcosis, coma, respiratory failure, and death in significant exposures. Symptoms include headaches, tremors, fatigue, hallucinations, distorted perceptions, and convulsions.

Chronic Effects No known effect based on information supplied

Aggravated Medical Conditions Persons with pre-existing skin disorders, eye problems, liver disease, central nervous system disorders, or impaired respiratory function may be more susceptible to the effects of the substance.

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 %
Ethyl alcohol	64-17-5	<10

4. FIRST AID MEASURES

Eye contact Flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

Skin contact Wash with water after exposure. If irritation persists get medical attention. Remove contaminated clothing.

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

Ingestion Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties FLAMMABLE

Flash point Flash point 108 °F

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

Explosion Data
Sensitivity to Mechanical Impact none
Sensitivity to Static Discharge none

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	**Health Hazard** 1	**Flammability** 2	**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 precautions Try to prevent the material from entering drains or water courses

Methods for Containment Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Methods for cleaning up Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN Open containers slowly to relieve any pressure
Empty containers may contain product residue.
All safety precautions taken when handling this product should also be taken when handling empty drums and containers

Technical measures/Storage conditions Store in a cool, dry area away from combustibles and reactive chemicals. Store away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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

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
Appearance Slightly Hazy Liquid
Color colorless
Odor Fruity
Odor Threshold No information available

Property	Values	Remarks Methods
pH	6.9-0.5	No information available
Melting/freezing point		Liquid
Freezing Point		No information available
Boiling point/boiling range	212 °F	No information available
Flash Point	108 °F	No information available

Evaporation rate	< 1	No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
upper flammability limit		
lower flammability limit		
Explosion Limits		
upper		
lower		
Vapor pressure		Same as water
Vapor density		Same as water
Specific Gravity	0.99	No information available
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		No information available
Viscosity, kinematic		No information available
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
VOC Content(%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible products Isppropyl Alcohol is incompatible with strong oxidizing agents, perchlorates, aluminum, alkali metals, acetyl chloride, calcium hypochlorite, chlorine oxides, mercuric nitrate, hydrogen peroxide, nitric acid, bromine pentafluoride, chromyl chloride, permanganic acid, uranium hexafluoride, acetyl bromide. Ingnites on contact with phosphorous (III) oxide; platinum; disulfuric acid + nitric acid; potassium tert-butoxide + acids. Will ignite and then explode on contact with acetic anhydride + sodium hydrogen sulfate. Forms explosive products in reaction with silver nitrate; ammonia + silver; silver (I) oxide + ammonia or hydrazine.

Conditions to Avoid Heat, flames, ignition sources and incompatibles.

Hazardous Decomposition Products Carbon dioxide and carbon monoxide may form when heated to decomposition.

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
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h

Chronic toxicity

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

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Following data for ethanol: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material is expected to readily biodegrade. When released into water, this material may evaporate to a moderate extent. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

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

Chemical Name	log Pow
Ethyl alcohol	0

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

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Flammable Liquids, n.o.s. (contains Ethyl Alcohol), 3, NA1993, PG III

Dot Regulated

- **Proper shipping name** Flammable Liquids, n.o.s. (contains Ethyl Alcohol), 3, NA1993, PG III
- **Hazard class** 3
- **UN/ID No** NA1993
- **Packing Group** III

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

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

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).

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

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
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.

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