



<b>Eye contact</b>	Flush with flowing water for 15 minutes & see physician.
<b>Skin contact</b>	None under normal use
<b>Inhalation</b>	Move to fresh air
<b>Ingestion</b>	Do NOT induce vomiting Consult a physician
<b>Notes to physician</b>	Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	FLAMMABLE			
<b>Flash point</b>	Flash point 73 °F			
<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ) Dry chemical			
<b>Hazardous Combustion Products</b>	Carbon dioxide may be formed during combustion.			
<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>	IF HEATED, VAPOR MAY BE FLAMMABLE. CAN REACT VIGOROUSLY WITH OXIDIZING MATERIALS.			
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool drums with water mist.			
<b>NFPA</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 3	<b>Stability</b> 0	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard</b> 1	<b>Flammability</b> 3	<b>Physical Hazard</b> 0	<b>Personal protection -</b>

## 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>	Remove all sources of ignition and flush with water.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers

## 7. HANDLING AND STORAGE

<b>Advice on safe handling</b>	KEEP OUT OF REACH OF CHILDREN Keep away from heat, sparks and open flame. No smoking
<b>Technical measures/Storage conditions</b>	Avoid heat, may build pressure, vapor may be flammable Keep away from heat and sources of ignition

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	Review Section 3 & 4 for Exposure Guidelines.
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
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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>
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**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>	Alcohol
<b>Appearance</b>	Thin Liquid	<b>Odor Threshold</b>	No information available
<b>Color</b>	clear To Pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks Methods</u>
<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>	176 °F	No information available
<b>Flash Point</b>	73 °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		
<b>Vapor pressure</b>	40	No information available
<b>Vapor density</b>	>1	No information available
<b>Specific Gravity</b>	.894	No information available
<b>Water solubility</b>	completely soluble	No information available
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient: n-octanol/water</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Viscosity, kinematic</b>		No information available
<b>Viscosity, dynamic</b>		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** Oxidizing agents  
**Conditions to Avoid** Open flames, Sparks, Oxidizing Agents  
**Hazardous Decomposition Products** Carbon dioxide may be formed during combustion.  
**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**

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
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**

<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
Ethyl alcohol	Toxic Ignitable

#### 14. TRANSPORT INFORMATION

<b>Note</b>	Cleaning Compound, Not Regulated
<b>Dot</b>	Not regulated
<b>Proper shipping name</b>	Consumer Commodity, ORM-D
<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**

<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>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	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**

<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.

<b>Chemical Name</b>	<b>California Prop. 65</b>
Ethyl alcohol	Carcinogen Developmental

**U.S. State Right-to-Know Regulations****International Regulations**

<b>Chemical Name</b>	<b>Carcinogen Status</b>	<b>Exposure Limits</b>
Ethyl alcohol		Mexico: TWA 1000 ppm Mexico: TWA 1900 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.

**16. OTHER INFORMATION**

**Prepared By** Swisher Hygiene Inc.  
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Charlotte, NC 28210

**Issuing date** 16-Sep-2011

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<b>Revision Date</b>	16-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**