Material Safety Data Sheet

Issuing date 13-Oct-2011 **Revision Date** 13-Oct-2011 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Swisher Sani Rinse II**

Product code 41739-1
Reference number(s) 40191-5

UN/ID No UN1903

Recommended Use Disinfectant

EPA Registration Number 10324-81-72802

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

Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Appearance Clear, Colorless to straw colored liquid. **Physical state** liquid. **Odor** Benzaldehyde (Organic)

Potential Health Effects

Acute toxicity

Eyes Causes burns and may result in permanent injury to eyes including blindness.

Skin Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin.

Inhalation Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness.

Ingestion Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

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 %
Octyl Decyl Dimethyl Ammonium Chloride	32426-11-2	2.00-4.00
1-Octanaminium, N,N-dimethyl-N-octyl-, chloride	5538-94-3	1.0-2.0
Ethanol	64-17-5	0.5-2.0
Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	2.00-4.00
Didecyldimethylammonium chloride	7173-51-5	1.0-2.0

4. FIRST AID MEASURES

Eye contact Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advise.

Inhalation If symptoms are experienced, move victim to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Call poison control center or doctor for treatment advise. Have person sip a glass of water if able to swallow. Do not induce vomitting unless told by poison control center or doctor. Do not give anything by mouth to an unconscious person.

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash point None when heated to 100'C - Cleveland Open Cup
Method None when heated to I 00"C - Cleveland Open Cup.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Hazardous Combustion Products Irritating and toxic gases or fumes may be released during a fire.

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** 0	**Flammability** 0	**Stability** 0	**Physical and chemical hazards** -
HMIS	**Health Hazard** 3	**Flammability** 0	**Physical Hazard** 0	**Personal protection** B

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 Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.
Large Spills: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

Methods for cleaning up Ventilate closed spaces before entering. All equipment used when handling the product must be grounded.
Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A
vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements or
confined areas.

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN Avoid contact with skin and eyes Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water

Technical measures/Storage conditions Keep containers tightly closed in a cool, well-ventilated place Keep from freezing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 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	Clear, Colorless to straw colored liquid.	**Odor**	Benzaldehyde (Organic)
Color	Clear, colorless to straw colored	**Odor Threshold**	No information available

Property	**Values**	**Remarks Methods**
pH	6.0-8.0	No information available
Melting/freezing point		No information available
Freezing Point		No information available
Boiling point/boiling range		No information available
Flash Point		None when heated to I 00"C - Cleveland Open Cup.
Evaporation rate		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		No information available
Vapor density		No information available
Specific Gravity		0.9905 (-8.26 lbs/gal)
Water solubility		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		1.94MM2/s (cSt) @22°C
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(%)	<20
Density VALUE	No information available
Bulk Density VALUE	No information available

10. STABILITY AND REACTIVITY

Stability Stable

Incompatible products Strong oxidizing agents (may result in fire.), reducing agents.

Conditions to Avoid Keep away from heat and strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

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: **> 2,000 mg/kg in male and female rats.**
LD50 Dermal: **>200 thru 2,000 mg/kg in male and female rabbits.**
Eye contact Corrosive.

Skin contact Corrosive

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
Alkyl (C12-16) dimethylbenzylammonium chloride	426 mg/kg (Rat)		
Didecyldimethylammonium chloride	84 mg/kg (Rat)		

Chronic toxicity

Chronic toxicity Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very Toxic to aquatic organisms. Information available upon request.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ethanol		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

Persistence and degradability Product is biodegradable.

Chemical Name	log Pow
Ethanol	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

Ethanol	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Disinfectants Liquid Corrosive, NOS (Quaternary Ammonium Compound), 8, UN1903, PG III

Dot Regulated
- **Proper shipping name** Disinfectants Liquid Corrosive, NOS (QuaternaryAmmonium Compound), 8, UN1903, PG III
- **Hazard class** 8
- **UN/ID No** UN1903
- **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	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	-

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 Title III, Sections 3111312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

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
Ethanol	Carcinogen Developmental

U.S. State Right-to-Know Regulations

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

Ethanol	AZ, CA, CT, ID, MA, MN, NJ, PA, RI
Benzyl Chloride (trace impurity < 10ppm)	AZ, CA, CAP65C, IL, MA, MN, NJ, PA
AZ - Arizona Ambient Air Quality Guidelines	MA - Massachusetts Right to Know List
CT - Connecticut Hazardous Air Pollutants	MN - Minnesota Hazardous Substances List CA –
California Director's List of Hazardous Substances	NJ - New Jersey Right to Know List
CAP65C - California Prop 65 Reproductive Toxin	PA - Pennsylvania Right to Know List
ID - Idaho Non-carcinogen Toxic Air Pollutants	RI - Rhode Island Hazardous Substances List
IL - Illinois Toxic Air Contaminant - Carcinogenic	

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Ethanol		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m^3

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.

WHMIS Hazard Class

E Corrosive material
D2B Toxic materials

16. OTHER INFORMATION

Prepared By
Swisher Hygiene Inc.
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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