Material Safety Data Sheet

Issuing date 12-Oct-2011 **Revision Date** 25-Nov-2011 **Version** 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Swisher Oven & Grill Cleaner**

Product code 41734
UN/ID No UN1950

Recommended Use Aerosol- Oven & Grill Cleaner

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

Aerosol. CONTENTS UNDER PRESSURE
Causes skin and eye burns. Irritating to respiratory system. Prolonged exposure may cause chronic effects

Appearance Compressed liquefied gas. **Physical state** liquid. **Odor** Ammoniacal

Potential Health Effects

Acute toxicity

Eyes Causes burns

Skin Causes burns May be harmful if absorbed through skin

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful Irritating to respiratory system

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion Harmful if swallowed Ingestion causes burns of the upper digestive and respiratory tracts

Chronic Effects Central nervous system. Lungs. Chronic effects May be harmful if absorbed through skin. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and
blurred vision) and/or damage. May cause delayed lung injury.

Main Symptoms Discomfort in the chest. Narcosis. Coughing.

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 %
N-Butane	106-97-8	1-3
Diethylene glycol monobutyl ether	112-34-5	8-10
Sodium hydroxide	1310-73-2	5-8
Ethanolamine	141-43-5	1-3
Propane	74-98-6	1-3

4. FIRST AID MEASURES

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately.

Inhalation If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Get medical attention if symptoms persist.

Ingestion In the unlikely event of swallowing contact a physician or poison control center. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties FLAMMABLE Runoff to sewer may cause fire or explosion hazard

Flash point Flash point -156 °F -104.4 °C

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

Hazardous Combustion Products Irritants. Toxic gas.

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

Protective Equipment and Precautions for Firefighters In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

NFPA	**Health Hazard** 0	**Flammability** 0	**Stability** 0	**Physical and chemical hazards** -
HMIS	**Health Hazard** 3	**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 Stop the flow of material, if this is without risk.

Methods for cleaning up Should not be released into the environment.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Advice on safe handling KEEP OUT OF REACH OF CHILDREN Pressurized container: Do not pierce or burn, even after use. Do not smoke while using
or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with skin. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure

Technical measures/Storage conditions Level 1 Aerosol Contents under pressure Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs Store at ambient temperature and atmospheric pressure Do not puncture, incinerate, or crush The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Review Section 3 & 4 for Exposure Guidelines.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
N-Butane 106-97-8	TWA: 1000 ppm		TWA: 800 ppm TWA: 1900 mg/m³
Sodium hydroxide 1310-73-2		TWA: 2 mg/m³	IDLH: 10 mg/m³ Ceiling: 2 mg/m³
Ethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m³ STEL: 6 ppm STEL: 15 mg/m³
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/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		
Appearance	Compressed liquefied gas.	**Odor**	Ammoniacal
Color	colorless	**Odor Threshold**	No information available

Property	**Values**	**Remarks Methods**
pH	13-14	No information available
Melting/freezing point		No information available
Freezing Point		No information available
Boiling point/boiling range	196.1 °C 384.8 °F	No information available
Flash Point	-104.4 °C -156 °F	No information available
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		85 - 105 psig @ 70F
Vapor density		No information available
Specific Gravity	1.0091	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	1.009 g/cm3
Bulk Density VALUE	No information available

10. STABILITY AND REACTIVITY

Stability Risk of ignition.

Incompatible products None known based on information supplied

Conditions to Avoid Heat, flames and sparks

Hazardous Decomposition Products Irritants. Toxic gas.

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
N-Butane			658 mg/L (Rat) 4 h
Sodium hydroxide		1350 mg/kg (Rabbit)	
Ethanolamine	1720 mg/kg (Rat)	1 mL/kg (Rabbit) 1025 mg/kg (Rabbit)	
Propane			658 mg/L (Rat) 4 h

Chronic toxicity

Chronic toxicity Central nervous system. Lungs. Chronic effects May be harmful if absorbed through skin. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and
blurred vision) and/or damage. May cause delayed lung injury.

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
Sodium hydroxide		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
Ethanolamine	15: 72 h Desmodesmus subspicatus mg/L EC50	114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	65: 48 h Daphnia magna mg/L EC50

Chemical Name	log Pow
N-Butane	2.89
Ethanolamine	0
Propane	2.3

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

Contaminated packaging Do not re-use empty containers

US EPA Waste Number D001: Waste Flammable material with a flash point <140 F

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Toxic Corrosive

14. TRANSPORT INFORMATION

Note UN1950, Aerosols Flammable, containing substances, 8, 2.1, PG III, LTD QTY

Dot Regulated
- **Proper shipping name** UN1950, Aerosols Flammable, containing substances, 8, 2.1, PG III, LTD QTY
- **Hazard class** 8
- **UN/ID No** UN1950
- **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 302 extremely hazardous substance - No
Section 311 hazardous chemical - Yes SARA TITLE III (EPCRA) NOTIFICATION: GLYCOL ETHERS
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: GLYCOL ETHERS, SODIUM HYDROXIDE
For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
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
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
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

Chemical Name	Carcinogen Status	Exposure Limits
N-Butane		Mexico: TWA 800 ppm Mexico: TWA 1900 mg/m^3
Ethanolamine		Mexico: TWA 3 ppm Mexico: TWA 8 mg/m^3 Mexico: STEL 6 ppm Mexico: STEL 15 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.

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