

Material Safety Data Sheet

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Swisher Oven & Grill Cleaner

Product code 41734 UN/ID No UN1950

Recommended Use 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.

See Section 12 for additional Ecological Information **Environmental hazard**

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.

Treat symptomatically Notes to physician

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 water to prevent vapor pressure build up.

In case of fire and/or explosion do not breathe fumes. Containers should be cooled with

Health Hazard 0 Physical and chemical NFPA Flammability 0 Stability 0 hazards -

Health Hazard 3 Personal protection -**HMIS** Flammability 2 Physical Hazard 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation

Environmental precautionsTry to prevent the material from entering drains or water courses

Methods for ContainmentStop the flow of material, if this is without risk.

Methods for cleaning upShould 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 Do not puncture, incinerate, or crush The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame 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

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/m ³
Sodium hydroxide 1310-73-2		TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Ethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m ³	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/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 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 Hygiene measuresUnnecessary in open institutional enviroment.

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

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 range196.1 °C 384.8 °FNo information availableFlash Point-104.4 °C -156 °FNo information available

Evaporation rate No information available

Flammability (solid, gas)

Flammability Limits in Air

No information available
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 solubilitycompletely solubleNo information availableSolubility in other solventsNo information available

Partition coefficient: n-octanol/water No information available

Autoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information available

Viscosity, dynamic

Explosive properties No information available Oxidizing Properties No information available

9.2 Other information

Softening pointNo information availableMolecular WeightNo information availableVOC 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 Aerosols Flammable, containing substances, 8, LTD QTY, 2.1, UN1950, PG III

Dot Regulated

Proper shipping name Aerosols Flammable, containing substances, 8, LTD QTY, 2.1, UN1950, PG III

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

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TSCA TSCA Complies DSL Complies **NDSL EINECS** Complies **ELINCS** Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies 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

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 HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardYesReactive Hazardno

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			Χ

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/m³
Ethanolamine		Mexico: TWA 3 ppm Mexico: TWA 8 mg/m ³
		Mexico: STEL 6 ppm Mexico: STEL 15
		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

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

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
