

MATERIAL SAFETY DATA SHEET

BSL 9410

1. Product and Company Identification

Product number	015-003
Product name	Hospital Disinfectant
Effective date	01-Feb-2011
Company information	Bright Solutions LLC 4111 S Creek Road Chattanooga, TN 37406 United States
Company phone	General Assistance 630-543-7600
Emergency telephone US	800-424-9300
Emergency telephone outside US	703-527-3887
Version #	08
Supersedes date	04-Mar-2010

2. Hazards Identification

Emergency overview	Aerosol. CONTENTS UNDER PRESSURE. Harmful in contact with eyes. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility. Cancer hazard. Prolonged exposure may cause chronic effects. Flammable.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion.
Eyes	Moderately irritating to the eyes.
Skin	Harmful if absorbed through the skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
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.
Target organs	Blood. Central nervous system. Liver. Lungs.
Chronic effects	Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause delayed lung injury.
Signs and symptoms	Discomfort in the chest. Narcosis. Cyanosis (blue tissue condition, nails, lips, and/or skin). Coughing. Liver enlargement. Jaundice. Defatting of the skin. Skin irritation. Corneal damage.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethyl Alcohol	64-17-5	40 - 50
n-Butane	106-97-8	15 - 20
Propane	74-98-6	5 - 8
Methanol	67-56-1	1 - 3
Non-hazardous and other components below reportable levels		20 - 40

4. First Aid Measures

First aid procedures	
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 if irritation develops and persists.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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.

Notes to physician Keep victim under observation.

5. Fire Fighting Measures

Flammable properties Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media Foam. Dry chemical. Carbon dioxide (CO2).

Protection of firefighters

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.

6. Accidental Release Measures

Methods for containment Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.

Methods for cleaning up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling 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 eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin.

Storage Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. 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. Level 2 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH				
Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	250 ppm	Not established

OSHA				
Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Methanol	67-56-1	200 ppm	Not established	Not established

Personal protective equipment

Eye / face protection Do not get in eyes. Chemical goggles are recommended.

Skin protection Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	136.4 °F (57.8 °C) estimated
Color	colorless
Density	0.7516 g/cm ³ estimated
Flammability (HOC)	25.0491 kJ/g estimated
Flash back	Yes
Flash point	-156 °F (-104.4 °C) Propellant
Form	Aerosol.
Freezing point	Not available
Odor	fruity alcoholic
pH	9.5 - 10.5
Physical state	Liquid.
Pressure	75 - 90 psig @ 70F
Solubility	Partially
Specific gravity	0.7517

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include oxides of nitrogen.

11. Toxicological Information

Acute effects	Acute LC50: 81 mg/l/4h estimated, Rat, Inhalation
Component analysis - LD50	
Toxicology Data - Selected LD50s and LC50s	
Ethyl Alcohol	64-17-5 Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h
Methanol	67-56-1 Inhalation LC50 Rat 83.2 mg/L 4 h; Inhalation LC50 Rat 64000 ppm 4 h; Oral LD50 Rat 5628 mg/kg; Dermal LD50 Rabbit 15800 mg/kg
n-Butane	106-97-8 Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6 Inhalation LC50 Rat 658 mg/L 4 h
Sensitization	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	
IARC - Group 1 (Carcinogenic to Humans)	
Ethyl Alcohol	64-17-5 Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in preparation] (in alcoholic beverages)
Reproductive effects	Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, or infertility.
Teratogenicity	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	LC50 1730 mg/L estimated, Fish, 96.00 Hours, EC50 931 mg/L estimated, Daphnia, 48.00 Hours, Contains a substance which causes risk of hazardous effects to the environment.
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13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	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.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS
Hazard class 2.1
UN number 1950

Additional information:

Packaging exceptions LTD QTY
Item 5F
Labels required None
Transport Category 2



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable
Hazard class 2.1
UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Pesticides are exempt from TSCA.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Methanol 67-56-1 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Methanol: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - Pennsylvania - RTK (Right to Know) List

Ethyl Alcohol	64-17-5	Present
Methanol	67-56-1	Environmental hazard
n-Butane	106-97-8	Present
Propane	74-98-6	Present

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*
 Flammability: 3
 Physical hazard: 0
 Personal protection:

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

Prepared by

Regulatory Compliance



HMIS RATINGS:
 Health: 1
 Flammability: 4
 Reactivity: 0
 Personal Protection: B

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: FOAMING LEMON CLEANER	Emergency Phone: 800-535-5053
Chemical Family: Aerosol	Date Prepared: 01/15/09
Company Identification: ABC COMPOUNDING CO. OF TEXAS, 1102 Avenue J East	MSDS Number: 4559
Grand Prarie, TX 75050	Mfgd By: ABC COMPOUNDING CO. OF 1102 Avenue J East Grand Prarie, TX 75050

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGT.	OSHA PEL/ACGIH TLV	SARA 302/304(1)*	SARA 313 (2)*	STATE INFO(3)(4)
112-34-5	Diethylene Glycol Monobutyl Ether	< 4.0	35 ppm / 35 ppm	NO	YES	NO
-	Propellant Mixture	-	-	-	-	-
74-98-6	Propane	-	1000 ppm	NO	NO	NO
106-97-8	N-Butane	-	600 ppm	NO	NO	NO

* See Section 15 for more information n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING. Causes eye and skin irritation. Harmful if swallowed. Keep away from heat and flame. Contents under pressure. Do not puncture or incinerate container.

Primary Route of Entry: Skin contact, inhalation

Acute/Potential Health Effects:

EYES: Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.

SKIN: Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling.

INHALATION: High vapor/aerosol concentrations (>1000ppm) are irritating to the respiratory tract.

INGESTION: May cause headache, dizziness, incoordination, nausea, vomiting, diarrhea and general weakness.

Chronic / Long Term Effects: No data

Signs and Symptoms of Overexposure: Dermal exposure may cause local redness and swelling, pain and discomfort.

Target Organ Effects: No data.

Reproductive/Developmental Information: No data.

Trade Name: FOAMING LEMON CLEANER

MSDS Number: 4559

Carcinogenic Information: This material is not listed as a carcinogen by IARC, NTP or OSHA.

Section 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Seek medical attention immediately. Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: FIRE FIGHTING MEASURES

Flash Point: No flash by standard methods

Extinguishing Media: Use appropriate methods for combatting surrounding fire.

Special Fire Fighting Instructions: CAUTION. Contents under pressure. Cool exposed containers with water spray to prevent bursting. SCBA should be used whenever chemical fires are present.

Section 6: ACCIDENTAL RELEASE MEASURES

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Section 7: HANDLING AND STORAGE

Do not use or store near heat, sparks or open flame. Exposure to temperatures above 120 F may cause bursting. Do not puncture or incinerate container. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Keep out of reach of children.

Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Eye Protection: Wear safety glasses or goggles.

kin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

Respiratory Protection: When respiratory protection is required, use an organic vapor & particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements.

Trade Name: FOAMING LEMON CLEANER

MSDS Number: 4559

Engineering Controls: Good general ventilation required.

Sec 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Slightly cloudy, colorless mist/spray with lemon fragrance
pH Concentrate: 11.7
Solubility in Water: Complete
Vapor Pressure [mmHg]: n/e
Evaporation Rate (Butyl Acetate=1): n/e
Vapor Density [Air=1]: n/e
Specific Gravity [H2O=1]: 1.00
Boiling Point: 212 F

Section 10: REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to avoid: High temperature
Hazardous Decomposition Products: CO, CO2
Incompatibility: Acids and strong oxidizers

Section 11: TOXICOLOGICAL INFORMATION

No data.

Section 12: ECOLOGICAL INFORMATION

No data.

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

Section 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name / Class:

Consumer Commodity, ORM-D

(Domestic Ground Shipments)

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic (X) Fire () Pressure (X) Reactive () Not Applicable ()

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

Trade Name: FOAMING LEMON CLEANER

MSDS Number: 4559

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)
None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

- (3) California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986)
 - (4) Massachusetts (Hazardous Substance Disclosure by Employers)
-

Section 16: OTHER INFORMATION

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number Product Division:
(as it appears on label):

**TNT FOAMING
DISINFECTANT
CLEANER** Janitorial

Product Number: 6343

Spartan Chemical
Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical
Information: 1-(800)-537-8990

Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill: CHEMTREC 1-(800) 424-9300
Emergency: (24 hours)

Shipping Description:	ORM-D, Consumer commodity, cleaning compounds, aerosol, n.o.s.		
NFPA Ratings:	HMS Ratings:		
Health:	1 - Slight	Health:	*1 - Slight; Chronic Hazard
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot Equip.:	See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name (s)	% W	CAS Registry No.	Table Z-1 - A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Isobutane	1-5	75-28-5	1900 (NIOSH)	Not Established	Not Established	No
*2- Butoxyethanol	1-5	111-76-2	240 [skin] 96	Not Established	Not Established	No
Tetrapotassium pyrophosphate	1-5	7320-34-5	Not Established	Not Established	Not Established	No
Alkyl dimethyl benzyl ammonium chloride	< 1.0	68391-01-5	Not Established	Not Established	Not Established	No
Alkyl dimethyl ethyl benzyl ammonium chloride	< 1.0	68956-79-6	Not Established	Not Established	Not Established	No

Comment: *This substance is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPCRA)

SECTION III: PHYSICAL DATA

Boiling Point: (Concentrate) 210 °F	Vapor Pressure: Unknown
Vapor Density: Unknown (AIR = 1)	Solubility in Water: Complete
pH: 10.5-11.0	Specific Gravity: 1.01 (H ₂ O=1)
Evaporation Rate: <1 (butac.=1)	Percent Solid: 1-2
Physical State: Pressurized liquid (Acrosol can)	by Weight:
Appearance & Odor: Foams prof, mint fragrance	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: Propellant < 0°F	Method Used: Estimate
Flammable Limits: Not Established	Flame Extension: 0 Inches
	NFPA 308 Level 1 (Acrosol)
Extinguishing Media: Carbon dioxide, dry chemical, water fog, foam.	
Special Fire Fighting Procedures: Water may be used to cool closed containers to prevent pressure build-up and possible rupture when exposed to heat. Wear a full face positive pressure self contained breathing apparatus when fighting fires.	
Unusual Fire & Explosive Hazards: Product vapor may travel along the ground or pool in low areas and be ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static electricity or other ignition sources.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established
Primary Ingestion, Skin Contact, Eyes and Routes of Entry:	Ingestion
Effects of Overexposure: (through the skin. May be harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed. Inhalation may cause respiratory irritation. Contains 2-butoxyethanol which may cause central nervous system depression with symptoms such as headache, dizziness, nausea and drowsiness. Exposure to 2-butoxyethanol may cause blood cell, liver and kidney damage based on animal data. Avoid contact with eyes, skin or clothing. Do not swallow. Avoid breathing product mist. Wash thoroughly with soap and water after handling.	
Conditions Aggravated by Use: eye and respiratory disorders including asthma and dermatitis.	

Emergency & First Aid Procedures:

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN:	TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY with plenty of water for 15-20 minutes. Get medical attention if irritation persists.
Ingestion:	Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.
Inhalation:	In case of respiratory irritation, move person to fresh air. Get medical attention if irritation persists.

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	None	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Flush with water to sanitary sewer. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Do not puncture or incinerate aerosol containers. Dispose of in accordance with federal, state and local regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	Not normally required when good general ventilation is provided.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves (Specify Type):	Rubber gloves are recommended.
Eye Protection (Specify Type):	Splash goggles or safety glasses are recommended.
Other Protective Equipment:	See 29 CFR 1910.132-138

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Contents under pressure. Do not use near fire, sparks or flame. Do not store where temperatures could exceed 120 F. Do not puncture or incinerate container.
Other Precautions:	Keep out of reach of children.

© SCC Name: Ronald T. Cook Title: Manager, Regulatory Affairs
 06/01/2007
 TNT FOAMING Effective Date: 06/01/2007 Supersedes: 06/30/2005
 DISINFECTANT
 CLEANER
 Ref: 29 CFR Changes: Update Section II
 1910.1200
 (OSHA)

This document has been prepared using data from sources considered technically

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<http://www.spartanchemical.com/web/webhome.nsf>

Monday, July 27, 2009 9:01:49 AM

07-2004

BSL9411

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION						
NFPA Rating: Health-1; Flammability-1; Reactivity-0; Special-		HMIS Rating: Health-1; Flammability-1; Reactivity-0; Personal Protection-B				
Manufactured For: Kelsan Inc		DOT Hazard Classification: ORM-D				
Address: 5109 National Drive Knoxville TN 37914		Identity (trade name as used on label): SPRAY & WIPE GERMICIDAL CLEANER				
Address:		MSDS Number: A00251		Revision- 11		
Phone:		Date Prepared: 06/27/01		Prepared By: DL/CH/IB		
EMERGENCY RESPONSE NUMBER:		Information Calls: (770)422-2071				
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA						
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800	d
2-BUTOXYETHANOL *		74-98-6	No	1000	1000	d
		111-76-2	Yes	25 (skin)	20 (skin)	d
O-PHENYLPHENOL		90-43-7	Yes	NE	NE	e
WARNING: This product contains a chemical or chemicals known to the State of California to cause cancer.						
*GLYCOL ETHER						
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: N/A		Specific Gravity (H ₂ O=1): Concentrate Only = 1.0				
Vapor Pressure: PSIG @ 70°F (Aerosols): Max.60		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A				
Vapor Density (Air = 1): N/E		Evaporation Rate (= 1): N/E				
Solubility in Water: Completely soluble.		Water Reactive: No				
Appearance and Odor: White foam, light airy fragrance.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NON-FLAMMABLE		Auto Ignition Temperature N/E		Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E		
FLASH POINT AND METHOD USED (non-aerosols): N/A		EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide.				
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.						
Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE		HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR				
Incompatibility (Mat. to avoid): Strong oxidizers.		Conditions to Avoid: Open flame, welding arcs, heat.				
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS:						
Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.						
Eye Contact: Irritation.		Skin Contact: Mild irritation.				
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.						
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) May cause diarrhea, vomiting, gastrointestinal irritation. Lab animals have experienced anemia, liver, kidney, lung, blood damage to Glycol Ether EB.						
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.						
Skin Contact: Wash with soap and water. If irritated, seek medical attention.						
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.						
Protective Gloves: Latex, if skin easily irritated.		Eye Protection: Safety glasses recommended.				
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.						
Other Protective Clothing & Equipment: None						
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or Federal regulations. DO NOT FLUSH TO SEWER.						
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.						
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only
THIS MSDS IS CURRENT AS OF September 12, 2001. The DATE PREPARED section is the original date assembled and remains current until a change is necessary. This is tracked internally at the manufacturer by these date codes and therefore must remain as the originating date.

Distributed By: KEL-SAN, INC.
5109 NATIONAL DR., KNOXVILLE, TN 37914

JWX04832 1055

MATERIAL SAFETY DATA SHEET



END BAC II SPRAY DISINFECTANT

HMIS		NFPA	Personal protective equipment	
Health	2	2		
Fire Hazard	4	4		
Reactivity	0	0		

Version Number: 1

Preparation date: 2009-09-03

Product name: END BAC II SPRAY DISINFECTANT

MSDS #: 114742001
 Product Code: 04832
 Recommended use: Disinfectant.

Manufacturer, importer, supplier:
 US Headquarters
 JohnsonDiversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-1954
 Phone: 1-888-352-2249
 MSDS Internet Address:
 www.johnsondiversev.com

Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (intl)

EMERGENCY OVERVIEW

WARNING: CAUSES EYE IRRITATION. CONTENTS UNDER PRESSURE.

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
 Eye contact: Severe eye irritation.
 Skin contact: None known.
 Inhalation: May be irritating to nose, throat, and respiratory tract.
 Ingestion: May cause irritation to mouth, throat and stomach.

Hazardous Ingredients

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	0.1 - 1.5%	500	Not available	Not available
n-Alkyl (68% C14, 32% C16) dimethyl ethylbenzyl ammonium chloride	68956-79-6	0.1 - 1.5%	500	Not available	Not available
Ethyl alcohol	64-17-5	30 - 40%	7060	Not available	Not available
Bulane	106-97-8	20 - 30%	2000	Not available	=658 mg/L (4 h)
Propane	74-98-6	10 - 20%	2400	Not available	=658 mg/L (4 h)

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.
 Skin contact: Rinse with plenty of water.
 Inhalation: If breathing is affected, remove to fresh air. Get medical attention.
 Ingestion: Give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
 Aggravated Medical Conditions: None known.

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.
 Specific hazards: Aerosol product - Containers may rocket or explode in heat of fire. NFPA 30B Level 2 Aerosol.

END BAC II SPRAY DISINFECTANT

Unusual hazards: None known
Specific methods: Aerosol Product - Containers may rocket or explode in heat of fire.
Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: No information available

Handling:
CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Avoid breathing vapors or mists. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Use only in well-ventilated areas. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**
Storage:
 Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. NFPA 30B Level 2 Aerosol. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Do not pierce or burn, even after use. **KEEP OUT OF REACH OF CHILDREN.**

Engineering measures to reduce exposure:
 No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves
Skin and body protection: No special protective clothing is required.
Respiratory protection: No special protective clothing is required.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1900 mg/m ³ (TWA) 1000 ppm (TWA)	1000 ppm (TWA) 1900 mg/m ³ (TWA)
Butane	106-97-8	1000 ppm (TWA)		1900 mg/m ³ (TWA) 800 ppm (TWA)
Propane	74-98-6	1000 ppm (TWA)	1000 ppm (TWA) 1800 mg/m ³ (TWA)	

Physical State: Aerosol
pH: 11.13
Appearance: Aerosol
Color: Clear Colorless
Odor: Characteristic
Specific gravity: 0.898
Density: 7.49 lbs/gal 0.898 Kg/L
VOC: 67% *
Flash point: <0°F <17.8°C
Solubility: Completely Soluble
Viscosity: No information available

Bulk density: No information available
Dilution pH: 11.13 @ RTU
Vapor density: No information available
Evaporation Rate: No information available
Boiling point/range: Not determined
Melting point/range: Not determined
Decomposition temperature: Not determined
Autoignition temperature: No information available
Partition coefficient (n-octanol/water): No information available
Solubility in other solvents: No information available
Elemental Phosphorus: 0.00% by w.t.

Explosion limits - lower: Not determined- upper: Not determined

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.
Conditions to avoid: Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

END BAC # SPRAY DISINFECTANT

TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 estimated to be greater than 5000 mg/kg. Dermal LD50 estimated to be > 2000 mg/kg.
Component information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

Hazardous Ingredients

Ingredient(s)	CAS #	NTP	IARC	OSHA
Ethyl alcohol	64-17-5	X		X

ECOLOGICAL INFORMATION

Environmental information: No data available

DISPOSAL INFORMATION

Do not contaminate water, food, or feed by storage or disposal

Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations. Undiluted product is regulated under environmental and transportation laws as an ignitable waste.

Pesticide Storage:

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by State and local authorities burn. If burned, stay out of smoke

RCRA Hazard Class: D001

TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA).

U.S. Regulations

EPA Reg. No.: 67603-4

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

 CERCLA/ SARA**SARA 311/312 Hazard Categories**

Immediate:	X
Delayed:	-
Fire:	X
Reactivity:	-
Sudden Release of Pressure:	X

Reason for revision: Not applicable
Prepared by: NAPFAC
Additional advice: None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

END BAC II SPRAY DISINFECTANT

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CHATTANOOGA, TN.

37481

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION OF PRODUCT

TRADE NAME : SPRAY KLEEN
 CHEMICAL FAMILY: DISINFECTANT CLEANER
 DATE PREPARED : 1-5-2000
 DOT CLASS: COMPOUND, CLEANING

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS %
BUTANE/PROPANE/ISOBUTANE PROPELLANT	1000PPM	800PPM	
(186-97-8) (74-98-6) (75-28-5)			
2-BUTOXYETHANOL	25 PPM (SKIN)	111-76-2	
DIETHYLENE GLYCOL ETHYL ETHER		111-98-8	

SECTION III - SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT OF 1986 & OF 40 CFR 372:

CAS #	CHEMICAL NAME	% BY WGT
111-76-2	2-BUTOXYETHANOL	2.0
111-98-8	DIETHYLENE GLYCOL ETHYL ETHER	2.0

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 212 F
 SPECIFIC GRAVITY (W20=1) : 1.00
 SOLUBILITY IN WATER : COMPLETE
 APPEARANCE : CLEAR LIQUID
 ODOR : LEMON ODOR
 VAPOR PRESSURE (mmHg) : N.E.
 VAPOR DENSITY (Air=1) : N.E.
 EVAPORATION RTE (Butyl Act=1) : N.E.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : NONE
 EXTINGUISHING MEDIA : WATER SPRAY
 SPECIAL FIRE FIGHTING PROCEDURES:
 USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

UNUSUAL HAZARDS

CONTENTS UNDER PRESSURE! EXPOSURE TO TEMPERATURES ABOVE 120F MAY CAUSE BURSTING.

SECTION V - REACTIVITY DATA

STABILITY : STABLE
 CONDITIONS TO AVOID : EXTREME TEMPERATURES
 POLYMERIZATION : WILL NOT OCCUR
 CONDITIONS TO AVOID : NONE
 INCOMPATIBLE MATERIALS : STRONG ACIDS AND OXIDIZERS

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS
 CO, CO2

SECTION VI - HEALTH HAZARDS DATA

THRESHOLD LIMIT VALUE : NOT ESTABLISHED
 CARCINOGENICITY :
 NTP : NO
 IARC MONOGRAPHS : NO
 OSHA REGULATED : NO

HEALTH HAZARDS ACUTE/CHRONIC :

MODERATE TO SEVERE IRRITATION AND POSSIBLE TISSUE DAMAGE TO EYES DEPENDING ON EXPOSURE. NAUSEA, VOMITING AND DIARRHEA MAY OCCUR UPON INGESTION. PROLONGED SKIN CONTACT MAY CAUSE MODERATE IRRITATION, DEFATTING AND DERMATITIS.

EMERGENCY FIRST AID PROCEDURES:

INHALATION:
 MOVE TO FRESH AIR. CONSULT PHYSICIAN IF SYMPTOMS PERSIST.

INGESTION :

GIVE LARGE QUANTITIES OF WATER THEN SEVERAL GLASSES OF MILK. INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES! LIFTING THE EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING AND WASH WITH PLENTY OF SOAP AND WATER.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE, STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

MOP OR WIPE UP WITH WATER.

WASTE DISPOSAL METHOD :

CONTACT FEDERAL, STATE AND LOCAL AUTHORITIES FOR PROPER DISPOSAL METHODS.

PRECAUTIONS TO TAKE IN HANDLING & STORAGE:

DO NOT STORE NEAR HEAT OR OPEN FLAME. DO NOT THROW CAN INTO FIRE OR INCINERATOR.

OTHER PRECAUTIONS:

CONTENTS UNDER PRESSURE! DO NOT PUNCTURE OR INCINERATE CONTAINER.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION : ONLY W/O ADEQUATE VENTILATION
 VENTILATION : EQUIVALENT TO OUTDOORS
 PROTECTIVE GLOVES : N/A
 EYE PROTECTION : N/A
 OTHER PROTECTIVE MEASURES :
 WASH HANDS BEFORE EATING OR SMOKING. KEEP OUT OF REACH OF CHILDREN.

EMERGENCY PHONE#: 800-535-5053

DISCLAIMER: A.B.C. COMPOUNDING BELIEVES THAT THE INFORMATION CONTAINED ON THIS MATERIAL SAFETY DATA SHEET IS ACCURATE. THE SUGGESTED PROCEDURES ARE BASED ON EXPERIENCE AS OF DATE OF PUBLICATION. THEY ARE NOT NECESSARILY ALL INCLUSIVE NOR FULLY ADEQUATE IN EVERY CIRCUMSTANCE. ALSO, THE SUGGESTIONS SHOULD NOT BE CONFUSED WITH, NOR FOLLOWED IN VIOLATION OF APPLICABLE LAWS, REGULATIONS RULES OR INSURANCE REQUIREMENTS.

JWX04832 1055

MATERIAL SAFETY DATA SHEET



END BAC II SPRAY DISINFECTANT

HMIS		NFPA		Personal protective equipment	
Health	2	2	2		
Fire Hazard	4	4	4		
Reactivity	0	0	0		

Version Number: 1 Preparation date: 2009-09-03

Product name: END BAC II SPRAY DISINFECTANT
 MSDS #: 114742001
 Product Code: 04832
 Recommended use: Disinfectant.
 Manufacturer, importer, supplier:
 US Headquarters
 JohnsonDiversey, Inc.
 8310 18th St.
 Sturtevant, Wisconsin 53177-1964
 Phone: 1-888-352-2249
 MSDS Internet Address:
 www.johnsondiversev.com
 Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (intl)

EMERGENCY OVERVIEW

WARNING: CAUSES EYE IRRITATION. CONTENTS UNDER PRESSURE.

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
 Eye contact: Severe eye irritation.
 Skin contact: None known.
 Inhalation: May be irritating to nose, throat, and respiratory tract.
 Ingestion: May cause irritation to mouth, throat and stomach.

Hazardous ingredients

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	0.1 - 1.5%	500	Not available	Not available
n-Alkyl (66% C14, 32% C16) dimethyl ethylbenzyl ammonium chloride	68956-79-6	0.1 - 1.5%	500	Not available	Not available
Ethyl alcohol	64-17-5	30 - 40%	7060	Not available	Not available
Butane	106-97-8	20 - 30%	2000	Not available	=658 mg/L (4 h)
Propane	74-98-6	10 - 20%	2400	Not available	=658 mg/L (4 h)

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.
 Skin contact: Rinse with plenty of water.
 Inhalation: If breathing is affected, remove to fresh air. Get medical attention.
 Ingestion: Give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
 Aggravated Medical Conditions: None known.

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.
 Specific hazards: Aerosol product - Containers may rocket or explode in heat of fire. NFPA 30B Level 2 Aerosol.

END BAC II SPRAY DISINFECTANT

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Unusual hazards: None known
Specific methods: Aerosol Product - Containers may rocket or explode in heat of fire.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Extinguishing media which must not be used for safety reasons: No information available

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: No information available

Handling:
CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Avoid breathing vapors or mists. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Use only in well-ventilated areas. **FOR COMMERCIAL AND INDUSTRIAL USE ONLY.**

Storage:
 Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. NFPA 30B Level 2 Aerosol. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 degrees C or 120 degrees F. Do not pierce or burn, even after use. **KEEP OUT OF REACH OF CHILDREN.**

Engineering measures to reduce exposure:
 No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eye protection: Chemical-splash goggles.
Hand protection: Chemical-resistant gloves
Skin and body protection: No special protective clothing is required.
Respiratory protection: No special protective clothing is required.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Ethyl alcohol	84-17-5	1000 ppm (TWA)	1800 mg/m ³ (TWA) 1000 ppm (TWA)	1000 ppm (TWA) 1800 mg/m ³ (TWA)
Butane	106-97-8	1000 ppm (TWA)		1800 mg/m ³ (TWA) 800 ppm (TWA)
Propane	74-98-6	1000 ppm (TWA)	1000 ppm (TWA) 1800 mg/m ³ (TWA)	

Physical State: Aerosol	Bulk density: No information available
pH: 11.13	Dilution pH: 11.13 @ RTU
Appearance: Aerosol	Vapor density: No information available
Color: Clear Colorless	Evaporation Rate: No information available
Odor: Characteristic	Boiling point/range: Not determined
Specific gravity: 0.898	Melting point/range: Not determined
Density: 7.49 lbs/gal 0.898 Kg/L	Decomposition temperature: Not determined
VOC: 67% *	Autoignition temperature: No information available
Flash point: <0°F <-17.8°C	Partition coefficient (n-octanol/water): No information available
Solubility: Completely Soluble	Solubility in other solvents: No information available
Viscosity: No information available	Elemental Phosphorus: 0.00% by wt.

Explosion limits: - lower: Not determined- upper: Not determined

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.
Conditions to avoid: Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

END BAC # SPRAY DISINFECTANT

PHYSICAL AND CHEMICAL INFORMATION

Acute toxicity: Oral LD50 estimated to be greater than 5000 mg/kg. Dermal LD50 estimated to be > 2000 mg/kg.
Component Information: See Section 3
Chronic toxicity: None known
Specific effects
Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

Hazardous Ingredients

Ingredient(s)	CAS #	NTP	IARC	OSHA
Ethyl alcohol	64-17-6	X		X

ECOLOGICAL INFORMATION

Environmental information: No data available

USE INFORMATION

Do not contaminate water, food, or feed by storage or disposal

Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations. Undiluted product is regulated under environmental and transportation laws as an ignitable waste.

Pesticide Storage:

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by State and local authorities burn. If burned, stay out of smoke

RCRA Hazard Class: D001

TRANSPORTATION INFORMATION

DOT/IDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

INTERNATIONAL REGULATIONS**International Inventories**

All components of this product are listed on the following inventories: U.S.A. (TSCA).

U.S. Regulations

EPA Reg. No.: 67603-4

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

CERCLA/ SARA**SARA 311/312 Hazard Categories**

Immediate:	X
Delayed:	-
Fire:	X
Reactivity:	-
Sudden Release of Pressure:	X

OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

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