

SAFETY DATA SHEETS

This SDS packet was issued with item:

071637503

N/A

MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CITRACE® HOSPITAL GERMICIDE		DATE: September 9, 2011
PRODUCT NUMBER: 49100 (14 oz Spray Can), 49110 (5 oz Spray Can)		
TRADE NAME: CITRACE® HOSPITAL GERMICIDE	CITRACE® HOSPITAL GERMICIDE	
GENERAL USE: Hospital Germicide		
CHEMICAL FAMILY: Phenolic in Ethanol		
PRODUCT DESCRIPTION: Pressurized aerosol, clear pale yellow liquid with a citrus odor.		
MANUFACTURER Clorox Professional Products Company	DATE PREPARED: September 9, 2011	SUPERSEDES: May 12, 2009
ADDRESS (NUMBER, STREET, P.O. BOX) 1221 Broadway	TELEPHONE NUMBER FOR INFORMATION/Customer Service (510) 271-7000	
(CITY, STATE AND ZIP CODE) Oakland, CA 94612	COUNTRY USA	For Medical Emergencies, call: (800) 446-1014 For Transportation Emergencies, call Chemtrec: (800) 424-9300

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #
Ethanol	65-67	64-17-5
Orthophenyl phenol	0.05-2.5	90-43-7
d-limonene	1.0-4.0	5989-27-5
Sodium nitrite	<0.1	7632-00-0
Propane propellant	3-5	74-98-6
Notes: * The balance of ingredients not listed above are non-hazardous as defined in the OSHA hazard communication standard 29CFR 1910.1200.		

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW IARC has determined that alcoholic beverages are carcinogenic to humans (Group 1) and the occurrence of malignant tumors of the oral cavity, pharynx, larynx, esophagus and liver is causally related to the consumption of alcoholic beverages in humans. Not listed by ACGIH and NTP.		
POTENTIAL HEALTH EFFECTS		
INHALATION: No significant effect expected from a single short-term exposure. Respiratory irritation and depressed CNS function is expected with prolonged and long term exposure.		
SKIN: Essentially non-irritating.		
EYES: May cause moderate eye irritation.		
INGESTION: May cause digestive tract disturbances. Effects of ethyl alcohol ingestion depend on the amount and rate of consumption. Short-term overexposure can cause drunkenness, depression of the central nervous system, nausea, vomiting, diarrhea, and liver damage.		
CARCINOGENICITY: NTP? No IARC MONOGRAPHS? Yes, Ethanol. OSHA REGULATED? No CALIFORNIA, Prop. 65? Ethyl Alcohol for Developmental Reproductive Toxicity. Orthophenyl Phenol for carcinogenicity.		

SECTION 4 - FIRST AID MEASURES

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical personnel.
EYES: If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Seek medical attention if irritation persists.
SKIN: Wash with soap and water; no further first aid should be required.
INGESTION: If ingested in large amounts and victim is conscious and able to swallow, have victim drink water to dilute. Call a physician or Poison Control Center. Never give anything by mouth if a victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or Poison Control Center.

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME:	CITRACE® HOSPITAL GERMICIDE	DATE: September 9, 2011
PRODUCT NUMBER:	49100 (14 oz Spray Can), 49110 (5 oz Spray Can)	

SECTION 5 - FIREFIGHTING MEASURES

GENERAL HAZARDS:

Aerosol package when exposed to extreme heat above 130°F could rupture releasing flammable ingredients. Ethanol vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. Flash point=20°C (68°F) Closed cup.

EXTINGUISHING MEDIA:

Water fog, carbon dioxide and dry chemical.

FIREFIGHTING PROCEDURES:

Wear SCBA when fighting fires involving this product. Individual aerosol containers are under pressure and can and will rupture under fire conditions sometimes with explosive force.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fight fire as with any flammable aerosol product.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide, Carbon Dioxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate all sources of ignition. Stop leak if without risk. Absorb spill with inert material (vermiculite, earth or sand). Dispose of saturated absorbent materials appropriately since spontaneous heating may occur.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Handle in areas equipped with good area ventilation. Avoid buildup of vapors in confined areas. Do not puncture, incinerate, store in heat or sun as container may burst above 130°F. Avoid contact with food. Flammable. Do not use near fire, sparks, or flame. Do not spray in eyes. Contents under pressure. STORE AS LEVEL 2 AEROSOL (NFPA 30B).

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Ethanol	1000	1900	3300 IDLH		1000		1000	1900
Orthophenyl phenol	NE	NE	NE	NE	NE	NE	NE	NE
d-limonene	NE	NE	NE	NE	NE	NE	NE	NE
Sodium nitrite	NE	NE	NE	NE	NE	NE	NE	NE
Propane propellant					1000		1000	

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

A respiratory protection program that meets OSHA's 29 CFR 1910.134, ANSI Z88.2 requirements must be followed whenever workplace concentrations of this product in air exceed the published TLVs.

PROTECTIVE GLOVES:

Impervious rubber or nitrile gloves are advised if prolonged or repeated exposure is likely.

EYE PROTECTION:

Use safety glasses with protective side shields to avoid eye contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not Required.

WORK/HYGIENIC PRACTICES:

Wash with soap and water after contact.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Pressurized Aerosol, clear pale yellow liquid with a citrus odor.	VAPOR PRESSURE 40mm Hg at 20°C
pH 9.5	SPECIFIC GRAVITY (WATER = 1) 0.867
BOILING POINT/BOILING RANGE 80°C (176°F)	SOLUBILITY IN WATER Dispersable
FLASH POINT 20°C (68°F) Closed cup.	VISCOSITY NA
FLAMMABLE LIMITS LEL: NE UEL: NE	VAPOR DENSITY (AIR = 1) <1
AUTO IGNITION TEMPERATURE NE	EVAPORATION RATE (WATER = 1) NR

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME:	CITRACE® HOSPITAL GERMICIDE	DATE: September 9, 2011
PRODUCT NUMBER:	49100 (14 oz Spray Can), 49110 (5 oz Spray Can)	

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	X	CONDITIONS TO AVOID: Excessive heat above 130°F, do not puncture or incinerate. Avoid sources of ignition.
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INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids, strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Ethanol	64-17-5	Oral, mouse: LD50 = 3450 mg/kg Oral, rat: LD50 = 7060 mg/kg	Inhalation, mouse: LC50 = 39 gm/m3/4H
Orthophenyl phenol	90-43-7	Oral, mouse: LD50 = 1050 mg/kg Oral, rat: LD50 = 2700 mg/kg	NE
d-limonene	5989-27-5	Oral, mouse: LD50 = 5600 mg/kg Oral, rat: LD50 = 4400 mg/kg	NE
Sodium nitrite	7632-00-0	Oral, mouse: LD50 = 175 mg/kg Oral, rat: LD50 = 180 mg/kg	Inhalation, rat: LC50 = 5.5 gm/m3/4H
Propane propellant	74-98-6	NE	NE

SECTION 12 - ECOLOGICAL INFORMATION


No information is available for this blended product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Landfill in a permitted waste disposal facility in accordance with all local, state, and federal regulations. Do not incinerate.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME:	ORM-D Consumer Commodity (within USA only)	
DOT HAZARD CLASS/Pack Group:	ORM-D Consumer Commodity Ground Only	IATA HAZARD CLASS/Pack Group: Contact Manufacturer
REFERENCE:	49CFR172, 49CFR173	IMDG HAZARD CLASS: Contact Manufacturer
UN/NA IDENTIFICATION NUMBER:	None -ORM-D	RID/ADR Dangerous Goods Code: Contact Manufacturer
LABEL:	ORM-D Consumer Commodity (USA Ground Only)	UN TDG Class/Pack Group: Contact Manufacturer
HAZARD SYMBOLS:		Hazard Identification Number (HIN): Contact Manufacturer
		Refer to 49CFR172 and 49CFR173 for pertinent regulations.

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 -177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

MATERIAL SAFETY DATA SHEET

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PRODUCT NAME:	CITRACE® HOSPITAL GERMICIDE	DATE: September 9, 2011
PRODUCT NUMBER:	49100 (14 oz Spray Can), 49110 (5 oz Spray Can)	
SECTION 15 - REGULATORY INFORMATION		
<p>TSCA (USA - Toxic Substance Control Act): Listed</p> <p>SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):</p> <p style="margin-left: 40px;">Acute Health: Yes Chronic Health: Yes</p> <p style="margin-left: 40px;">Fire: Yes Sudden Release of Pressure: Yes</p> <p style="margin-left: 40px;">Reactive: No</p>		
<p>313 REPORTABLE INGREDIENTS: This material contains 2-Phenylphenol (CAS # 90-43-7, 0.05-2.5%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR.</p> <p>CERCLA (USA - Comprehensive Response Compensation and Liability Act): No RQs listed.</p> <p>California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Warning: This product contains Ethyl alcohol, a chemical known to the state of California to cause developmental reproductive toxicity. WARNING: This product contains 2-Phenylphenol, a chemical known to the state of California to cause cancer.</p>		
SECTION 16 - OTHER INFORMATION		
<p>Legend: NA=Not applicable NE=Not established NR=Not reported</p>		
HMIS HAZARD RATINGS	<p>HEALTH: 1</p> <p>FLAMMABILITY: 3</p> <p>PHYSICAL HAZARD: 0</p> <p>PERSONAL PROTECTIVE EQUIPMENT: B</p>	<p>0 = INSIGNIFICANT</p> <p>1 = SLIGHT</p> <p>2 = MODERATE</p> <p>3 = HIGH</p> <p>4 = EXTREME</p>
NFPA HAZARD RATINGS	<p>HEALTH: 1</p> <p>FLAMMABILITY: 3</p> <p>REACTIVITY: 0</p> <p>SPECIAL HAZARDS: None*</p> <p style="text-align: center;">* - Refers to NFPA recognized Hazards Only</p>	<p>0 = NONE</p> <p>1 = SLIGHT/LITTLE</p> <p>2 = MODERATE</p> <p>3 = HIGH/SERIOUS</p> <p>4 = EXTREME</p>
<p>REVISION SUMMARY:</p> <p>Revised with additional information 9/9/2011, supersedes 5/12/2009 version.</p>		
<p>The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.</p>		



SAFETY DATA SHEET

Issuing Date 05-Jan-2015

Revision Date 16-Jun-2016

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Clorox Healthcare® Citrace® Hospital Disinfectant & Deodorizer

Other means of identification

Synonyms None

EPA Pesticide registration number 67619-29

Recommended use of the chemical and restrictions on use

Recommended Use Disinfectant (Aerosol)

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name The Clorox Professional Products Company

Supplier Address Clorox Professional Products Company
Broadway, CA 94612

Supplier Phone Number 1-510-271-7000

Emergency telephone number For Medical Emergencies call: 1-800-446-1014
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2B
Carcinogenicity	Category 1B
Flammable Aerosols	Category 2
Gases Under Pressure	Compressed gas

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger

Hazard Statements
Causes eye irritation
May cause cancer
Extremely flammable gas
Contains gas under pressure; may explode if heated



Appearance Clear

Physical state Liquid

Odor Orange Citrus

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place
Do not expose to temperatures exceeding 122°F (50°C)

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Causes mild skin irritation
Harmful to aquatic life with long lasting effects
Toxic to aquatic life
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Ethanol	64-17-5	50-70	*
Propane	74-98-6	1-5	*
D-Limonene	5989-27-5	1-5	*
Sodium nitrite	7632-00-0	0.1-1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice

Show this safety data sheet to the doctor in attendance.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin contact

Wash with soap and water. If symptoms persist, call a physician.

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects

May cause redness and tearing of the eyes.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Containers may explode when heated.

Hazardous Combustion Products

No information available.

Explosion Data

Sensitivity to Mechanical Impact

No.

Sensitivity to Static Discharge

Yes.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Other Information ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep at a temperature not exceeding 50 °C. Keep away from open flames, hot surfaces and sources of ignition. Keep cool. Protect from sunlight.

Incompatible Products Strong oxidizing agents. Halogens. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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 10% LEL TWA: 1900 mg/m ³
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
D-Limonene 5989-27-5	None	None	None
Sodium nitrite 7632-00-0	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing.
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	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties**

Physical state	Liquid	Odor	Orange Citrus
Appearance	Clear	Odor Threshold	No information available
Color	Colorless		
Property	Values	Remarks	Method
pH	6.5-8.5	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	19°C (liquid, closed cup), Flame extension 18 inches (46 cm) without flashback	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	0.85 (liquid)	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

Can react with strong oxidizers, inorganic acids, and halogens.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

(Do not expose to temperatures exceeding 50°C/122°F). Protect from direct sunlight.

Incompatible materials

Strong oxidizing agents. Halogens. Acids.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

May be harmful by inhalation.

Eye contact

Irritating to eyes.

Skin contact

May cause irritation.

Ingestion

May cause central nervous system depression. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	-	-	125 mg/L (Rat, 4 h)
Propane 74-98-6	-	-	658 mg/L (Rat) 4 h
D-Limonene 5989-27-5	4.4 g/kg (Rat)	>5 g/kg (Rabbit)	-
Sodium nitrite 7632-00-0	85 mg/kg (Rat)	-	5.5 mg/L (Rat)

Information on toxicological effects

Symptoms

May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	X
D-Limonene 5989-27-5		Group 3		X
Sodium nitrite 7632-00-0		Group 2A		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

Contains a known or suspected carcinogen. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

Target Organ Effects

Eyes. Blood. Central nervous system (CNS). Liver. Respiratory system.

Aspiration Hazard

No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

63.6 g/kg

ATEmix (inhalation-gas)

10,425,493.31

ATEmix (inhalation-dust/mist)

188.00 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol 64-17-5		LC50: 12.0 - 16.0 mL/L (96 h static) Oncorhynchus mykiss LC50: 13400 - 15100 mg/L (96 h flow-through) Pimephales promelas LC50: > 100 mg/L (96 h static) Pimephales promelas	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L (48 h) Daphnia magna EC50: 10800 mg/L (24 h) Daphnia magna EC50: 2 mg/L (48 h Static) Daphnia magna

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Ethanol 64-17-5	-0.32
Propane 74-98-6	2.3
Sodium nitrite 7632-00-0	-3.7

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal methods Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging Dispose of in accordance with federal, state and local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 232

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION**DOT**

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Description CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number 126

TDG

Proper Shipping Name AEROSOLS
Description UN1950, AEROSOLS, 2.1

MEX

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2.1
 Description UN1950, AEROSOLS, 2.1

ICAO

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2.1
 Description UN1950, AEROSOLS, 2.1

IATA

UN-No. UN1950
 Proper Shipping Name AEROSOLS, FLAMMABLE
 Hazard Class 2.1
 Packing Group None
 ERG Code 10L
 Description UN1950, AEROSOLS, FLAMMABLE, 2.1

IMDG/IMO

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2
 Packing Group None
 EmS-No. F-D, S-U
 Description UN1950, AEROSOLS, 2.1

RID

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2.1
 Classification code 5F
 Description UN1950, AEROSOLS, 2.1

ADR

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2.1
 Classification code 5F
 Tunnel restriction code D
 Description UN1950, AEROSOLS, 2.1

ADN

UN-No. UN1950
 Proper Shipping Name AEROSOLS
 Hazard Class 2.1
 Classification code 5F
 Special Provisions 190, 327, 344, 625
 Description UN1950, AEROSOLS, 2.1
 Hazard Labels 2.1
 Limited Quantity 1 L
 Ventilation VE01, VE04

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
IECSC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Sodium nitrite - 7632-00-0	7632-00-0	0.1-1	1.0

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

CWA (Clean Water Act)

This product contains the following substances which are regulated 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 nitrite 7632-00-0	100 lb.			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium nitrite 7632-00-0	100 lb		RQ 100 lb final RQRQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Ethanol - 64-17-5	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethanol 64-17-5		X			
Propane 74-98-6	X	X	X		

D-Limonene 5989-27-5					X
Sodium nitrite 7632-00-0	X	X	X	X	

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide label

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

International Regulations**Mexico****National occupational exposure limits**

Mexico - Occupational Exposure Limits - Carcinogens

Canada**WHMIS Hazard Class**

Not determined

16. OTHER INFORMATION

NFPA	Health Hazards	1	Flammability	3	Instability	0	Physical and Chemical Hazards	-
HMIS	Health Hazards	1	Flammability	3	Physical Hazard	0	Personal Protection	A

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Disclaimer

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End of Safety Data Sheet