unisource®

MATERIAL SAFETY DATA SHEET

LEMON D-FEN Disinfectant Spray

Version Number: 1

Preparation date: 2006-07-24

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LEMON D-FEN Disinfectant Spray
MSDS #:	MS0600131
Product code:	U23055
Recommended use:	Industrial/Institutional. Disinfectant.
Manufacturer, importer, supplier: Unisource Worldwide, Inc. 6600 Governors Lake Parkway Norcross, GA 30071 Phone: 770-447-9000 MSDS Internet Address: www.unisourcelink.com	
Emergency telephone number:	1-800-535-5053

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- CAUTION
- HARMFUL IF ABSORBED THROUGH SKIN
- CAUSES EYE IRRITATION
- MAY BE MILDLY IRRITATING TO SKIN
- PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS

Principle routes of exposure:	• Eye contact • Skin contact • Inhalation
Eye contact:	• Moderately irritating to the eyes
Skin contact:	• May be mildly irritating to skin • Prolonged or repeated skin contact may cause allergic reactions in some individuals
Inhalation:	• None known
Ingestion:	• May cause irritation to mouth, throat and stomach

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient(s)	CAS #	Weight %
Para-tertiary-amylphenol	80-46-6	<0.1%
Ortho-phenylphenol	90-43-7	0.1 - 1.5%
Ethyl alcohol	64-17-5	30 - 50%
Methanol	67-56-1	1 - 5 %
Butane	106-97-8	10 - 30%
Propane	74-98-6	10 - 30%

HAZARDOUS COMPONENTS

Ingredient(s)	LD50 Oral - Rat	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Para-tertiary-amylphenol	= 1830 mg/kg	= 2 g/kg	Not available
Ortho-phenylphenol	= 1049 mg/kg	Not available	> 0.949 mg/L (1h)
Ethyl alcohol	= 1501 mg/kg	Not available	= 124.7 mg/L (4h)
Methanol	= 5628 mg/kg	= 15800 mg/kg	= 64000 ppm (4h) = 83.2 mg/L (4h)
Butane	Not available	Not available	= 658 g/m³ (4h)
Propane	Not available	Not available	Not available

4. FIRST AID MEASURES	
Eye contact:	• 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 eyes • If irritation persists, get medical attention
Skin contact:	• Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes • If irritation develops get medical attention
Inhalation:	• No specific first aid measures are required
Ingestion:	• No specific first aid measures are required • If swallowed, give a cupful of water or milk
Aggravated Medical Conditions:	• None known

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	• Dry chemical, water spray, foam, carbon dioxide
Specific hazards:	• Aerosol product - Containers may rocket or explode in heat of fire • Keep product and empty container away from heat and sources of ignition • NFPA 30B Level 2 Aerosol
Unusual hazards:	• None known
Specific methods:	• No special methods required
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	

Flammability Limits in Air:	**Lower**	1.8	**Upper**	9.2

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions:	• Use personal protective equipment
Environmental precautions and clean-up methods:	• Use appropriate containment to avoid environmental contamination • Soak up with inert absorbent material • Sweep up and shovel into suitable containers for disposal • Use a water rinse for final clean-up

7. HANDLING AND STORAGE	
Handling:	• Avoid contact with skin, eyes and clothing • Wash thoroughly after handling
	FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage:	• 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 • NFPA 30B Level 2 Aerosol • KEEP OUT OF THE REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering measures to reduce exposure: • No special ventilation requirements • General room ventilation is adequate	
Personal Protective Equipment	
Eye protection:	• No special requirements under normal use conditions
Hand protection:	• No special requirements under normal use conditions
Skin and body protection:	• No special requirements under normal use conditions
Respiratory protection:	• No special requirements under normal use conditions
Hygiene measures:	• Handle in accordance with good industrial hygiene and safety practice

Personal protective equipment **None / Aucune / Ninguno**

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Ethyl alcohol	64-17-5	1000 ppm (TWA)	1000 ppm (TWA) 1900 mg/m³ (TWA)	1000 ppm (TWA) 1900 mg/m³ (TWA)
Methanol	67-56-1	250 ppm (STEL) 200 ppm (TWA)	200 ppm (TWA) 260 mg/m³ (TWA)	250 ppm (STEL) 310 mg/m³ (STEL) 260 mg/m³ (TWA) 200 ppm (TWA)
Butane	106-97-8	1000 ppm (TWA)		
Propane	74-98-6	1000 ppm (TWA)	1000 ppm (TWA) 1800 mg/m³ (TWA)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Aerosol	**Appearance:**	Aerosol
Color:	Colourless	**Odor:**	Lemon
Specific gravity:	0.7515	**pH:**	9.0 - 10.0
Dilution pH:	No information available.	**Density:**	No information available.
Bulk density:	No information available	**Vapor density:**	>1
Vapor pressure:	125 @ 130°F	**Evaporation Rate**	<1
Solubility:	Easily soluble	**VOC:**	No information available
Viscosity:	No information available		

Solubility in other solvents:	No information available
Partition coefficient (n-octanol/water):	No information available
Boiling point/range:	Not determined
Melting point/range:	Not determined
Flash point:	>54 (°F) >12.2 (°C)
Decomposition temperature:	Not determined
Autoignition temperature:	No information available

10. STABILITY AND REACTIVITY

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

11. 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:	• Prolonged or repeated skin contact may cause allergic reactions in some individuals
Specific effects	
Carcinogenic effects:	• None known
Mutagenic effects:	• None known
Reproductive toxicity:	• None known
Target organ effects:	• None known

12. ECOLOGICAL INFORMATION

Environmental Information:	• No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	• Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

International Inventories

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

U.S. Regulations

EPA Reg. No. : 706-69-82440

California Proposition 65: This product contains materials listed under California's Proposition 65.

Ingredient(s)

Ortho-phenylphenol - 90-43-7

SARA 311/312 Hazard Categories

Immediate:	Y
Delayed:	N
Fire:	Y
Reactivity:	N
Sudden Release of Pressure:	Y

Canada

Ingredient(s)	CAS #	NPRI
Sodium nitrite	7632-00-0	X
Ethyl alcohol	64-17-5	X
Methanol	67-56-1	X
Propane	74-98-6	X

WHMIS hazard class:	Not for sale in Canada.

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	NJRTK:	MARTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Sodium nitrite	7632-00-0	X	X	-	-
Ethyl alcohol	64-17-5	X	X	X	X
Methanol	67-56-1	X	X	-	X
Butane	106-97-8	X	X	X	X
Propane	74-98-6	X	X	X	X

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium nitrite	7632-00-0	0.1 - 1.5%	100		X
Methanol	67-56-1	1 - 5 %	5000		X

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Methanol	X		

16. OTHER INFORMATION						
HMIS	**Health**	2	**Fire Hazard**	4	**Reactivity**	0
NFPA	**Health:**	2	**Flammability:**	4	**Instability:**	0

Reason for revision:	Not applicable
Prepared by:	NAPRAC
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.