



# MATERIAL SAFETY DATA SHEET

LEMON FIELDS II Disinfectant Cleaner

Date Prepared: 08/07/1997  
Date Revised: 01/19/2000

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: LEMON FIELDS II Disinfectant Cleaner  
Product Synonyms: Command Center 9 Lemon Fields Disinfectant Cleaner Concentrate;  
Command Center Concentrate 9

### MANUFACTURER

The Butcher Company  
67 Forest Street  
Marlborough, MA 01752-3012

Butcher Telephone Number: 800-225-9475  
Emergency Telephone (24 hours): 800-228-5635

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS NO.	% BY WEIGHT
Didecyl dimethyl ammonium chloride	7173-51-5	1 - 3
n-Alkyl dimethylbenzyl ammonium chloride	8001-54-5	1 - 3

See Section 8 for Exposure Limits *NA - Not Applicable*

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
Clear, Yellow Liquid. Lemon Odor. Causes Eye and Skin Irritation.

### POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(S) OF EXPOSURE:  Eye  Skin Contact  Skin Absorption  
 Inhalation  Ingestion

### EFFECTS OF ACUTE EXPOSURE

#### EYES:

Causes eye irritation. Symptoms may include redness and pain.

#### SKIN:

Causes skin irritation. Symptoms may include redness, rash and mild swelling.

#### INHALATION:

High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing.

#### INGESTION:

May cause mouth, throat and stomach irritation. Symptoms may include nausea, vomiting and diarrhea.

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**EFFECTS OF CHRONIC EXPOSURE:**

Prolonged or repeated contact may cause skin irritation.

**MEDICAL CONDITIONS AGGRAVATED:**

May aggravate pre-existing eye, skin and respiratory conditions.

**4. FIRST AID MEASURES**

**EYES:**

Flush eyes with plenty of water while holding eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not put any medication in the victim's eyes unless instructed by a physician. Get medical attention.

**SKIN:**

Flush with water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops.

**INHALATION:**

Remove to fresh air. If not breathing, give respiration; if breathing is difficult, give oxygen (by trained personnel only). Get medical attention if symptoms persist.

**INGESTION:**

Do not induce vomiting. Drink large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

**5. FIRE FIGHTING MEASURES**

FLASH POINT AND METHOD: >200°F 93°C TCC

**FLAMMABLE LIMITS:**

Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

**EXTINGUISHING MEDIA:**

Use extinguishing media appropriate for surrounding fire.

**HAZARDOUS COMBUSTION PRODUCTS:**

Normal products of combustion (carbon monoxide and carbon dioxide) and nitrogen oxides.

**FIRE AND EXPLOSION HAZARDS:**

None known.

**FIRE FIGHTING INSTRUCTIONS:**

This product is not flammable. As in any fire, MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear should be worn.

**6. ACCIDENTAL RELEASE MEASURES**

See Section 8, Exposure Controls/Personal Protection and Section 3, Hazard Identification. Floors may be slippery. Use care to avoid falling. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop, absorbent, or wet vacuum to collect material for proper disposal. Rinse area with water.

**7. HANDLING AND STORAGE**

**HANDLING:**

Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing. Wash clothing and equipment before reuse.

**STORAGE:**

Keep container closed when not in use. Store away from incompatible materials. (See Section 10, Stability and Reactivity).

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**EYE:**

Where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ANSI Z87.1 approved).

**SKIN:**

Where skin contact is possible, chemical-resistant clothing (e.g., gloves) should be worn.

**RESPIRATORY:**

No respiratory protection is required if ventilation is adequate.

**ENGINEERING CONTROLS:**

General room ventilation is expected to be adequate.

**EXPOSURE LIMITS:**

<u>INGREDIENT(S)</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
Didecyl dimethyl ammonium chloride	NE	NE
n-Alkyl dimethylbenzyl ammonium chloride	NE	NE

*NE - Not Established*

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: Liquid  
 ODOR: Lemon  
 APPEARANCE: Clear, Yellow  
 pH: 7.2 to 8.2  
 PERCENT VOLATILE BY WEIGHT: 94  
 VAPOR PRESSURE: Not Determined  
 VAPOR DENSITY: Not Determined  
 BOILING POINT: Not Determined  
 FREEZING/MELTING POINT: Not Determined  
 SOLUBILITY IN WATER: Complete  
 EVAPORATION RATE: Not Determined  
 SPECIFIC GRAVITY: 1.0  
 VISCOSITY: Water Thin  
 OCTANOL/WATER PARTITION COEFFICIENT: Not Determined  
 ODOR THRESHOLD: Not Determined

**10. STABILITY AND REACTIVITY**

STABILITY (CONDITIONS TO AVOID):  
 Stable.

POLYMERIZATION:  
 Will not occur.

HAZARDOUS DECOMPOSITION:  
 None.

INCOMPATIBLE MATERIALS:  
 Oxidizers (e.g., bleach).

**11. TOXICOLOGICAL INFORMATION**

ACUTE DATA:

This product causes mild skin and eye irritation. Based on acute toxicity testing, it is not considered to be toxic by ingestion or skin absorption. The following data are available for this product and its ingredients:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD<sub>50</sub> (rat)</u>	<u>DERMAL LD<sub>50</sub> (rabbit)</u>	<u>INHALATION LC<sub>50</sub> (rat)</u>
LEMON FIELDS II Disinfectant Cleaner	>5000 mg/kg	>2000 mg/kg	Not Available
Didecyl dimethyl ammonium chloride	450 mg/kg	3342 mg/kg	Not Available
n-Alkyl dimethylbenzyl ammonium chloride	590 mg/kg	2000 mg/kg	Not Available

SENSITIZATION DATA:  
 No data available.

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**CHRONIC DATA:**

No data available.

**REPRODUCTIVE/TERATOGENIC DATA:**

No data available.

**CARCINOGENIC/MUTAGENIC DATA:**

Not listed as carcinogenic by NTP, IARC, or ACGIH or regulated as a carcinogen by OSHA.

**SYNERGISTIC MATERIALS:**

No data available.

**12. ECOLOGICAL INFORMATION**

No data available.

**13. DISPOSAL CONSIDERATIONS**

Disposal of this material should be in accordance with local, state or provincial and federal regulations. The unused product, as manufactured, is a RCRA non-hazardous waste in accordance with 40 CFR 261. The product has not been evaluated by the Toxicity Characteristic Leachate Procedure (TCLP). According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

**14. TRANSPORT INFORMATION**

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Not regulated

**15. REGULATORY INFORMATION**

*Not meant to be all-inclusive—selected regulations represented.*

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** Under 40 CFR 370.2, this product meets the following hazard category:  
Immediate.

**313 REPORTABLE INGREDIENTS:** Ingredients in this product are not currently subject to notification.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** None of the ingredients in this product are reportable under CERCLA.

**EPA**

EPA REG. NO.: 47371- 131-7176

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** This product complies with all TSCA inventory requirements.

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**MASSACHUSETTS, NEW JERSEY, PENNSYLVANIA RIGHT-TO-KNOW:**

<u>INGREDIENT(S)</u>	<u>CAS NO.</u>	<u>STATE LISTING</u>
Water	7732-18-5	Not Listed
Didecyl dimethyl ammonium chloride	7173-51-5	Not Listed
n-Alkyl dimethylbenzyl ammonium chloride	8001-54-5	Not Listed

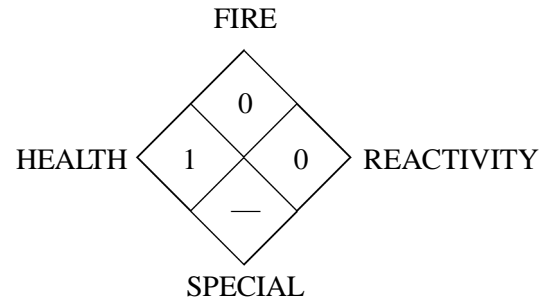
NA - Not Applicable

**16. OTHER INFORMATION**

**HMIS RATING**

HEALTH	-	2
FLAMMABILITY		0
REACTIVITY		0
PERSONAL PROTECTION	-	

**NFPA RATING**



**MSDS STATUS**

Revision #: 1

This MSDS replaces the November 20, 1997 MSDS. Any changes in information are as follows:

APPROVED BY: EH&S/Regulatory Affairs  
APPROVAL DATE: 01/19/2000

*The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user.*