

STAPLES CONTRACT & COMMERCIAL, INC.  
500 Staples Drive  
Framingham, MA 01702  
1-888-322-0912  
24-HR MEDICAL AND DOT EMERGENCIES: 1-888-322-0912

MSDS #: MSDS SBG0450  
**Hazard Rating**  
Health 2 2  
Flammability 1 1  
Reactivity 0 0  
Special None None

# MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** LEMON DC PLUS™ MSDS CODE: SBG0450.1211  
This MSDS applies to Product Numbers: 18540, 18541, BPR045001-A, and BPR0452QM-A

GENERIC DESCRIPTION	DATE ISSUED	SUPERSEDES	PREPARED BY
Disinfectant Cleaner	12-06-2011	01-20-2011	Regulatory Specialist

## SECTION 2: HAZARDS IDENTIFICATION

**Primary Entry Routes:** Skin, eyes, inhalation, and ingestion. **Signs & Symptoms of Exposure:** Direct contact of product with eyes or skin may cause irritation. Prolonged or repeated contact of product with eyes or skin may cause redness. If taken internally, product may cause irritation to mouth, throat or stomach. **Effects of Overexposure:** None known.

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Components	% by Wt.	CAS #	Exposure Limit
N, N-Didecyl-N, N-dimethylammonium chloride	2.43	7173-51-5	None established
N-Alkyl (C <sub>12-16</sub> )-N, N-dimethyl-N-benzylammonium chloride	1.62	68424-85-1	None established
N, N-Dimethyl-1-octylamine-N-oxide	0.80	2605-78-9	None established
Ethylenediaminetetraacetic acid, trisodium salt	0.93	150-38-9	None established
Ethanol	1.00	64-17-5	1000 ppm (OSHA-PEL) 1000 ppm (ACGIH-TWA)

Balance is water and similar non-hazardous ingredients.

## SECTION 4: FIRST AID MEASURES

### Emergency First Aid Procedures:

**Eyes:** Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Seek immediate medical attention. If physician not available, flush for additional 15 minutes and then transport victim to medical care.

**Skin:** Wash with large amounts of running water and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Seek immediate medical attention. Wash clothing and decontaminate shoes before reuse.

**Ingestion:** If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Seek immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

**Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Seek immediate medical attention.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

## SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** >200°F **Flammable Limits:** Not known. **Extinguishing Media:** Dry Chemical, Foam, CO<sub>2</sub>, and Water.

**Special Fire Fighting Procedures:** Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray. **Unusual Fire and Explosion Hazards:** Products of combustion are toxic.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Release or Spill:** CAUTION! Wear appropriate protective gear and respiratory protection where mist or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## SECTION 7: HANDLING AND STORAGE

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water; food or feed by storage or disposal. Store in original container in areas inaccessible to children. Do not store on side. Avoid creasing or impacting of side walls.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

**Respiratory Protection:** In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

**Protective Gloves:** Rubber or neoprene, when needed, to prevent skin contact.

**Eye Protection:** Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields where there is no potential for eye contact.

**Other Protective Equipment:** Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance/Odor:** Yellow liquid/Lemon    **Boiling Point:** Not known.    **Evap. Rate:** Not known.  
**pH (as is):** 7.7    **Vapor Density:** Not known.    **Vapor Pressure:** Not known.    **Specific Gravity:** 1.0  
**Solubility in Water:** Soluble    **%Volatile:** 94.2    **V.O.C. Content (by weight):** <1.5% (<15g/L)

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable    **Conditions to Avoid:** None known.    **Incompatibility:** None known.

**Hazardous Decomposition Products:** Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.    **Hazardous Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

Not established.

## SECTION 12: ECOLOGICAL INFORMATION

Not established.

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in compliance with all Federal, state and local laws and regulations. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinstate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously and dispose of rinstate. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinstate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

DOT EMERGENCY 24-HR: 1-888-322-0912  
DOT LABEL: None

U.S. DOT Hazard Class: Not regulated.  
DOT SHIPPING NAME: Compound, Cleaning Liquid

## SECTION 15: REGULATORY INFORMATION

There are no components in this product currently reportable or listed as carcinogens by NTP, IARC or OSHA; on CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980); on SARA Title III, Sections 302/304; on SARA Title III Section 313; or on Michigan Critical Materials List. All components of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

### SARA Title III Sections 311/312:

Chemical Name	CAS #	*Hazard Categories
N, N-Didecyl-N, N-dimethylammonium chloride	7173-51-5	A
N-Alkyl (C <sub>12-16</sub> )-N, N-dimethyl-N-benzylammonium chloride	68424-85-1	A
N, N-Dimethyl-1-octylamine-N-oxide	2605-78-9	A
Ethanol	64-17-5	F

\* The five hazard categories are as follows: F= FIRE HAZARD; S=SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD

**CALIFORNIA PROPOSITION 65 – Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:**

### AS A CANCER HAZARD:

Chemical Name	CAS #	Typical Maximum Concentration
Acetaldehyde	75-07-0	80 ppb
Benzene	71-43-2	4 ppm
Benzyl chloride	100-44-7	8 ppm
N-Nitrosodimethylamine	62-75-9	40 ppb
Propylene oxide	75-56-9	800 ppb

### AS A REPRODUCTIVE HAZARD:

Chemical Name	CAS #	Typical Maximum Concentration
Benzene	71-43-2	4 ppm
Toluene	108-88-3	4 ppm

**MASSACHUSETTS Right-to-Know – The following components of this material are included in the Massachusetts Hazardous Substance List and are present at or above reportable levels:**

Chemical Name	CAS #	Typical Maximum Concentration
Acetaldehyde	75-07-0	75 ppb
Benzene	71-43-2	4 ppm
Benzyl chloride	100-44-7	8 ppm
Ethanol	64-17-5	1%
Hydrogen peroxide	7722-84-1	15 ppm

**NEW JERSEY Right-to-Know – The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:**

Chemical Name	CAS #	Typical Maximum Concentration
Ethanol	64-17-5	1%

**PENNSYLVANIA Right-to-Know – The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:**

Chemical Name	CAS #	Typical Maximum Concentration
Ethanol	64-17-5	1%

## SECTION 16: OTHER INFORMATION

Always follow label directions carefully when using this or any other chemical product. If information about this product is required, please contact Staples at 1-888-322-0912 or visit our website at [www.staples.com](http://www.staples.com). Keep MSD Sheets filed and organized in an area accessible to workers according to the OSHA Hazard Communication Standard.

*This MSDS was prepared for the sole purpose of compliance with the Occupational Safety and Health Administration's Hazard Communication Standard and that is its only intended use. All information contained in this Material Safety Data Sheet is provided to the best of Staples Contract & Commercial, Inc's knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.*