

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 #: BPR0450  

| Hazard Rating    | HMIS | NEPA |
|------------------|------|------|
| Health           | 2    | 2    |
| Flammability     | 1    | 1    |
| Physical hazards | 0    | -    |
| Reactivity       | -    | 0    |

# MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** LEMON DC PLUS™

This MSDS applies to Product Numbers: BPR045001-A, BPR0452QM-A, 18540, and 18541

MSDS CODE: BPR0450.1012

Prepared by: Regulatory Specialist, Staples Brand Group, (508) 253-5000

GENERIC DESCRIPTION

Disinfectant Cleaner

DATE ISSUED

10-01-2012

SUPERSEDES

08-01-2012

## SECTION 2: HAZARDS IDENTIFICATION

**Emergency overview:** Danger! Corrosive liquid.

**Potential short term health effects:**

**Routes of exposure:** Eyes, skin, inhalation, and ingestion.

**Eyes:** May cause irreversible eye damage.

**Skin:** May cause skin burns.

**Inhalation:** May cause irritation to throat and respiratory tract.

**Ingestion:** Harmful if swallowed.

**Target organs:** Eyes, skin, and respiratory system.

**Chronic effects:** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms:** Symptoms may include redness, edema, drying defatting and cracking of the skin. Symptoms of overexposure may include headache, dizziness, tiredness, nausea and vomiting.

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

| Components                                                      | % by Wt.   | CAS # | LD <sub>50</sub> (oral) |
|-----------------------------------------------------------------|------------|-------|-------------------------|
| Didecyl dimethyl ammonium chloride                              | 7173-51-5  | 2.54  | 238 mg/kg, rat          |
| N-Alkyl (C <sub>12-16</sub> ) dimethyl benzyl ammonium chloride | 68424-85-1 | 1.69  | 344 mg/kg, rat          |
| Ethanol                                                         | 64-17-5    | 1.0   | 7060 mg/kg, rat         |
| Trisodium hydrogen ethylenediaminetetraacetate                  | 150-38-9   | 0.93  | 397 mg/kg, rat          |
| N, N-Dimethyl-1-octylamine-N-oxide                              | 2605-78-9  | 0.80  | Not available           |

## SECTION 4: FIRST AID MEASURES

**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 first 5 minutes, then continue rinsing eye. Seek immediate medical attention.

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

**Ingestion:** Rinse mouth with water and then drink plenty of water. Seek immediate medical attention. DO NOT induce vomiting. If vomiting occurs, give fluids again. 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:** Move person to fresh air. If not breathing, clear airway and start artificial respiration and call 911 immediate. If victim is having trouble breathing, give supplemental oxygen if available. Seek immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** >199.99°F **Flammable Limits:** Not known. **Extinguishing Media:** Dry Chemical, Foam, 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:** Avoid walking in spill – floors may become slippery. 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

### Exposure Limits:

| Ingredient                                                                  | ACGIH-TLV     | OSHA-PEL      |
|-----------------------------------------------------------------------------|---------------|---------------|
| Ethanol #64-17-5                                                            | 1000 ppm STEL | 1,000 ppm TWA |
| Didecyl dimethyl ammonium chloride #7173-51-5                               | Not available | Not available |
| N, N-Dimethyl-1-octylamine-N-oxide #2605-78-9                               | Not available | Not available |
| Trisodium hydrogen ethylenediaminetetraacetate #150-38-9                    | Not available | Not available |
| N-Alkyl (C <sub>12-16</sub> ) dimethyl benzyl ammonium chloride #68424-85-1 | Not available | Not available |

**Engineering Controls:** In applications where sprays or mists may be generated, proper ventilation in accordance with good industrial hygiene should be provided.

**Respiratory Protection:** If ventilation is not sufficient to effectively prevent buildup of mist or vapors, a NIOSH/MSHA jointly approved respirator is advised.

**Protective Gloves:** Wear nitrile rubber or neoprene gloves to prevent skin contact.

**Eye Protection:** Wear chemical splash-proof goggles to prevent eye contact.

**Other Protective Measures:** Wear protective clothing (long sleeves, coveralls or other, as appropriate) to prevent skin contact. Have eye wash station and safety shower readily accessible.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| <b>Appearance/Odor:</b> Yellow liquid/Lemon odor   | <b>Specific Gravity:</b> 1.010                              |
| <b>Odor threshold:</b> Not available               | <b>Vapor Pressure:</b> Not available                        |
| <b>pH (concentrate):</b> 7.2 – 8.2                 | <b>Vapor Density:</b> Not available                         |
| <b>Boiling Point:</b> Not available                | <b>Freezing Point:</b> Not available                        |
| <b>Solubility in Water:</b> Soluble                | <b>Evaporation Rate:</b> Not available                      |
| <b>V.O.C. Content (by weight):</b> <1.5% (<15 g/L) | <b>Coefficient of water/oil distribution:</b> Not available |

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Incompatibility:** Strong oxidizing or reducing agents.

**Hazardous Decomposition Products:** Thermal decomposition may produce toxic vapors/fumes of amines and other organic materials, and oxides of carbon and nitrogen.

**Conditions to Avoid:** Do not mix with other chemicals.

**Hazardous Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Effects of acute exposure:

**Routes of exposure:** Eyes, skin, inhalation, and ingestion.

**Eyes:** May cause irreversible eye damage.

**Skin:** May cause skin burns.

**Inhalation:** May cause irritation to throat and respiratory tract.

**Ingestion:** Harmful if swallowed.

See Section 3 for components' toxicological data.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity Data:

#### Freshwater Algae

Ethanol #64-17-5 30 mins EC<sub>50</sub> Phyobacterium phosphoreum: 34900 mg/L

#### Freshwater Fish

Ethanol #64-17-5 96 Hr LC<sub>50</sub> Rainbow trout: 12900-15,300 mg/L

Trisodium hydrogen ethylenediaminetetraacetate #150-38-9 96 Hr LC<sub>50</sub> Pimephales promelas: 59.8 mg/L

#### Water Flea

Ethanol #64-17-5 96 Hr LC<sub>50</sub> Pimephales promelas: 14.2 mg/L

Trisodium hydrogen ethylenediaminetetraacetate #150-38-9 24 Hr LC<sub>50</sub> Daphnia magna: 625 mg/L

## 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.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate 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.

**Unsealed containers:** Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. 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 rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

**Sealed containers:** Wrap empty container and put in trash.

## SECTION 14: TRANSPORT INFORMATION

**DOT EMERGENCY 24-HR: 1-888-322-0912**

**U.S. DOT Hazard Class:** Not regulated.

**DOT SHIPPING NAME:** Compound, Cleaning Liquid

**DOT LABEL:** None

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

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

This product is EPA registered. EPA Registration#: 47371-131-86226.

**California Proposition 65:** WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

| Ingredient | CAS#    | State<br>Right-to-Know    | SARA EHS<br>Sect. 302 TPQ(lbs) | SARA EHS<br>Sect. 304 RQ(lbs) | CERCLA<br>RQ (lbs) |
|------------|---------|---------------------------|--------------------------------|-------------------------------|--------------------|
| Ethanol    | 64-17-5 | CA, MA, MN, NJ, PA,<br>RI | N/A                            | N/A                           | N/A                |

N/A = Not Applicable

**SARA 311/312 Hazard Categories:**

Immediate/Acute: Yes

Delayed/Chronic: No

Fire: No

Pressure: No

Reactivity: No

**CERCLA Reportable Quantity:** 10,000 lbs

**SARA Section 302 Extremely Hazardous Substance:** None

**SARA Section 313 Toxic Chemicals:** None

All components listed on the U.S. Toxic Substances Control Act (TSCA) inventory.

**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.*