

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 #: BPR0490
Hazard Rating **HMIS** **NFPA**
Health **3** **3**
Flammability **1** **1**
Reactivity **0** **0**
Special **None** **None**

MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

SECTION 1: PRODUCT IDENTIFICATION

Product: VIRUSTAT DC PLUS™

This MSDS applies to Manufacturer Item Numbers: BPR049001-A, BPR0492QM-A, 18429, and 18430
MSDS CODE: BPR0490.0912 Prepared by: Regulatory Specialist, Staples Brand Group, (508) 253-5000

GENERIC DESCRIPTION	DATE ISSUED	SUPERSEDES
Disinfectant Cleaner	09-10-2012	08-01-2012

SECTION 2: HAZARDS IDENTIFICATION

Emergency overview: Corrosive liquid. Causes irreversible eye damage and skin burns.

Potential short term health effects:

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

Eyes: Causes irreversible eye damage.

Skin: Causes 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 ₅₀ (oral)
N, N-Didecyl-N, N- dimethylammonium chloride	7173-51-5	10.14	238 mg/kg, rat
N-Alkyl (C ₁₂₋₁₆)-N, N-dimethyl-N- benzylammonium chloride	8001-54-5	6.76	240 mg/kg, rat
N, N-Dimethyl-1-octylamine-N-oxide	2605-78-9	3.2	None established
Ethanol	64-17-5	3.2	7060 mg/kg, rat; 3450 mg/kg, mouse
Ethylenediaminetetraacetic acid	60-00-4	3.0	>2000 mg/kg, rat

Balance is water and similar non-hazardous ingredients.

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 immediately. If victim is having trouble breathing, give supplemental oxygen if available. Seek immediate medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >199.9°F **Flammable Limits:** Not known. **Extinguishing Media:** Dry Chemical, Foam, or Water.

Special Fire Fighting Procedures: Must wear NIOSH 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 equipment and NIOSH/MSHA approved respirator 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. Provide sufficient air exchange and/or exhaust in work areas. Store at temperatures below 140°F. Ground all containers prior to pouring. Do not contaminate drinking water, food or feed by storage or disposal. Store in original, tightly closed container. Store 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
N, N-Didecyl-N, N- dimethylammonium chloride #7173-51-5	Not available	Not available
Ethylenediaminetetraacetic acid #60-00-4	Not available	Not available
N-Alkyl (C ₁₂₋₁₆)-N, N-dimethyl-N-benzylammonium chloride #8001-54-5	Not available	Not available
N, N-Dimethyl-1-octylamine-N-oxide #2605-78-9	Not available	Not available

Respiratory Protection: Where mist or vapors are generated by the process, or exposure limit for ethanol will be exceeded, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

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

Eye Protection: For undiluted product and where contact is possible, wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

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

Appearance/Odor: Green liquid/Lemon odor	Specific Gravity: 1.010
Odor threshold: Not available	Vapor Pressure: Not available
pH (concentrate): 7.2 – 8.2	Vapor Density: Not available
Boiling Point: Not available	Freezing Point: Not available
Solubility in Water: Soluble	Evaporation Rate: Not available
V.O.C. Content (by weight): <3% (<00 g/L)	Coefficient of water/oil distribution: Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: Do not mix with other chemicals.

Incompatibility: Strong oxidizing or reducing agents.

Hazardous Polymerization: Will not occur.

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

SECTION 11: TOXICOLOGICAL INFORMATION

Effects of acute exposure:

- Routes of exposure:** Eyes, skin, inhalation, and ingestion.
Eyes: May cause severe eye irritation.
Skin: May cause skin irritation.
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 – Acute Toxicity Data:

Freshwater Algae

- Ethanol #64-17-5 30 mins EC₅₀ *Phyobacterium phosphoreum*: 34900 mg/L
 N-Alkyl (C₁₂₋₁₆)-N, N-dimethyl-N-benzylammonium Chloride #8001-54-5 96 Hr EC₅₀ *Chlorella pyrenoidosa*: 170 ug/L

Freshwater Fish

- Ethanol #64-17-5 96 Hr LC₅₀ *Oncorhynchus mykiss*: 12900-15,300 mg/L
 Ethylenediaminetetraacetic acid #60-00-4 24 Hr LC₅₀ *Oncorhynchus mykiss*: 340 mg/L
 N-Alkyl (C₁₂₋₁₆)-N, N-dimethyl-N-benzylammonium Chloride #8001-54-5 96 Hr LC₅₀ Sheepshead minnow: 0.86 mg/L

Water Flea

- Ethylenediaminetetraacetic acid #60-00-4 24 Hr LC₅₀ *Daphnia magna*: 625 mg/L
 N-Alkyl (C₁₂₋₁₆)-N, N-dimethyl-N-benzylammonium Chloride #8001-54-5 24 Hr LC₅₀ *Daphnia magna*: 210 ug/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

U.S. DOT EMERGENCY 24-HR: 1-888-322-0912

Hazard Class: 8

Packing Group: III

Label: Corrosive

Proper Shipping Name: UN1903, Disinfectant, Liquid, Corrosive, n.o.s. (contains Quaternary Ammonium Chloride)

Special DOT Information: When packaged in containers of 4.9 liters (1.3 gallons) or less, this product may be shipped under the 49 CFR 173.150 packaging exemption for limited quantities.

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#: 47371-129-86226.

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 Right-to-Know	SARA EHS Sect. 302 TPQ(lbs)	SARA EHS Sect. 304 RQ(lbs)	CERCLA RQ (lbs)
Ethanol	64-17-5	CA, MA, MN, NJ, PA, RI	N/A	N/A	N/A
Ethylenediaminetetraacetic acid	60-00-4	CA, MA, NJ, NY, PA	N/A	N/A	5,000

N/A = Not Applicable

SARA 311/312 Hazard Categories:

Immediate/Acute: Yes

Delayed/Chronic: No

Fire: No

Pressure: No

Reactivity: No

CERCLA Reportable Quantity: 3,125 lbs

SARA Section 313 Toxic Chemicals: None

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. 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 Administrator'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.