



# NEUTRON



## NEUTRAL DISINFECTANT CLEANER

- **Cleaner • Detergent • Deodorizer • Disinfectant • Fungicide (against pathogenic fungi)**
- **\*Virucide • Kills Pandemic 2009 H1N1 Influenza A virus (formerly called swine flu)**
- **Mildewstat (on hard, non-porous, inanimate surfaces)**

### ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride .....	1.627%
Diocetyl dimethyl ammonium chloride .....	0.814%
Didecyl dimethyl ammonium chloride.....	0.814%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride ...	2.170%
<b>OTHER INGREDIENTS .....</b>	<b>94.575%</b>
<b>Total .....</b>	<b>100.000%</b>

**Net Contents: 5 Gallons (18.9 L)**

**Sold By**

**M-87**

**Mid-American Research Chemical Corp.  
P. O. Box 927, Columbus, NE 68602-0927 | 800-228-8508**

### KEEP OUT OF REACH OF CHILDREN DANGER

**See side panel for additional  
precautionary statements.**

This product is not for use on critical and semi-critical medical device surfaces.

This product for use in: Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, and other animal care facilities, health clubs, spas, tanning spas, massage/facial salons, hair/nail salons, barber/beauty shops and tattoo parlors.

This product is a phosphate-free, pH neutral formulation designed to provide effective cleaning, deodorizing, and disinfection for hospitals, nursing homes, hotels, schools, and food processing plants where housekeeping is of prime importance in controlling cross-contamination from treated surfaces.

This product, when used as directed, is formulated to disinfect the following hard non-porous inanimate environmental surfaces: floors, walls, metal surfaces, stainless steel surfaces, glazed porcelain, glazed ceramic tile, plastic surfaces, vanity tops, shower stalls, bathtubs, and cabinets. For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection.

This product deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls, and other areas which are prone to odors caused by microorganisms.

This product is formulated to a neutral pH and will not dull high-gloss floor finishes with repeated use.

**EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE AND \*VIRUCIDE AGAINST THE LISTED ORGANISMS IN WATER UP TO 400 PPM HARDNESS (AS CaCO<sub>3</sub>) IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM), THIS PRODUCT IS AN EFFECTIVE FUNGICIDE AGAINST THE LISTED FUNGI IN WATER UP TO 200 PPM HARDNESS (AS CaCO<sub>3</sub>) IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).**

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**GENERAL CLEANING-** Apply this product to soiled area with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer. This product can be diluted at 2 ounces per gallon or applied at full strength. Thoroughly wet soiled surface and scrub as necessary. **DISINFECTION-** To disinfect inanimate, hard non-porous surfaces add 2 ounces of this product per gallon of water. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For sprayer applications, spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breathe the spray mist. For heavily soiled areas, a pre-cleaning step is required. **To disinfect toilet bowls:** Remove gross filth or soils from surfaces with bowl brush. Add 2 ounces of this product to the bowl water. Brush or swab the bowl completely using a scrub brush or toilet mop making sure to get under the rim. Let stand for 10 minutes and flush. **To disinfect food processing premises:** Before using this product, food products and packaging materials must be removed from the area or carefully protected. For floors, walls, and storage areas, add 2 ounces of this product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water. **DEODORIZATION-** To deodorize, apply this product as indicated under the heading DISINFECTION. **BACTERICIDAL ACTIVITY-** At the 2 ounce per gallon dilution, this product demonstrates effective disinfectant activity against the organisms: Pseudomonas aeruginosa PRD-10, Salmonella (choleraesuis) enterica, Staphylococcus aureus, Staphylococcus aureus (clinical isolate), Bordetella bronchiseptica, Corynebacterium ammoniagenes, Enterobacter aerogenes, Enterobacter cloacae, Enterobacter cloacae (clinical isolate), Enterococcus faecalis, Enterococcus faecalis (clinical isolate), Escherichia coli (clinical isolate), Escherichia coli O111:H8, Fusobacterium necrophorum, Klebsiella pneumoniae subsp. pneumoniae, Lactobacillus casei subsp. rhamnosus, Listeria monocytogenes, Pasteurella multocida, Proteus vulgaris, Proteus mirabilis ATCC 9921, Proteus mirabilis ATCC 25933, Salmonella enterica subsp. enterica serotype paratyphi B, Salmonella enterica subsp. enterica serotype typhi, Salmonella enterica subsp. enterica serotype typhimurium, Salmonella enterica subsp. enterica serotype pullorum, Serratia marcescens, Shigella sonnei, Shigella flexneri Type 2b, Shigella dysenteriae, Staphylococcus aureus subsp. aureus, Staphylococcus epidermidis, Staphylococcus epidermidis (clinical isolate), Streptococcus pyogenes (Clinical - Flesh Eating Strain BIRD M3), Streptococcus pyogenes Group A, Xanthomonas maltophilia (clinical isolate), Vancomycin resistant Enterococcus faecalis (VRE), Methicillin resistant Staphylococcus aureus (MRSA), Vancomycin intermediate resistant Staphylococcus aureus (VISA), Community Associated Methicillin resistant Staphylococcus aureus (CA-MRSA) NRS 123 Genotype USA400, and Community Associated Methicillin resistant Staphylococcus aureus (CA-MRSA) NRS 384 Genotype USA300, Salmonella enterica subsp. enterica serotype enteritidis, Ampicillin resistant

Acinetobacter baumannii, Cefazolin resistant Acinetobacter baumannii, Ceftazidime resistant Acinetobacter baumannii, Ceftriaxone resistant Acinetobacter baumannii, Gentamicin resistant Acinetobacter baumannii, Tobramycin resistant Acinetobacter baumannii, Ciprofloxacin resistant Acinetobacter baumannii, Levofloxacin resistant Acinetobacter baumannii and Bactrim resistant Acinetobacter baumannii. **BACTERICIDAL STABILITY OF USE-SOLUTION:** Prepare a fresh solution for each use. **MILDEWSTAT-** To control mold and mildew (Aspergillus niger) and the odors they cause on pre-cleaned, hard, non-porous inanimate surfaces add 2 ounces of this product per gallon of water. Apply solution with a cloth, mop, sponge or hand pump trigger sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears. **FUNGICIDAL ACTIVITY -** At the 2 ounce per gallon dilution, this product is fungicidal against the pathogenic fungi, Trichophyton mentagrophytes (Athlete's Foot Fungus) (a cause of ringworm) and Candida albicans. Apply solution with a cloth, sponge or hand pump trigger sprayer to hard, non-porous surfaces found in bathrooms, shower stalls, locker rooms, exercise facilities or other clean, hard non-porous surfaces commonly contacted by bare feet. Allow the surface to remain wet for 10 minutes, then remove excess liquid. Diluted product should be applied daily or more frequently with heavy facility use. **\*VIRUCIDAL ACTIVITY -** This product when used on environmental, inanimate, hard, non-porous surfaces exhibits effective virucidal activity against HIV-1, HIV-2, Hepatitis B Virus (HBV), Hepatitis C Virus (HCV), Herpes Simplex Type 1 (causative agent of fever blisters), Herpes Simplex Type 2 (genital), Influenza A<sub>1</sub>/Hong Kong, Vaccinia, Rotavirus, Human Coronavirus (ATCC VR-740, Strain 229 E), SARS Associated Coronavirus, Rabies Virus, Paramyxovirus (Mumps), Bovine Viral Diarrhea Virus (BVDV), Pseudorabies, Bovine Rhinotracheitis, Feline Leukemia, Feline Picornavirus, Canine Distemper Virus, Avian Influenza A Virus, and Porcine Respiratory & Reproductive Syndrome Virus (PRRSV). Add 2 ounces of the product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, mop, sponge, hand pump trigger sprayer or low pressure coarse sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid.

**KILLS HIV-1, HIV-2, HBV, AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings (Hospitals, Nursing Homes) or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 or Type 2 (HIV-1 or HIV-2) (associated with AIDS), Hepatitis B Virus (HBV), and Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HIV-2, HBV, AND HCV ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids, use disposable latex gloves, gowns, masks, and eye coverings. **CLEANING PROCEDURES:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of this product. **CONTACT TIME:** Allow surface to remain wet for 10 minutes. **DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**Veterinary Practice/Animal Care/Animal Laboratory/Zoos/Pet Shop/ Kennels Disinfection Directions:** For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals and feed from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 2 ounces of this product per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not hose animals or employ equipment until treatment has been absorbed, set or dried. **Disinfection of Hard Non-Porous Surfaces in Whirlpool Units:** After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of fresh water added. Start the pump to circulate the solution. Wash down the unit sides, seat of the chair, lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly cleaned, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavily soiled units.

(Not for use in California)

**Special Instructions for Cleaning Carpet Against Odor Causing Bacteria:** This product may be used in industrial and institutional areas: motels and hotels, nursing homes, schools and hospitals. For use on wet cleanable synthetic fibers, do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for color fastness. **For portable extraction units:** Mix 2 ounces of this product per gallon of water. **For truck mounted extraction machines:** Mix 48 ounces of this product per gallon of water and meter at 4 gallons per hour. **For rotary floor machines:** Mix 4 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon. Do not mix this product with other cleaning products. Follow the cleaning procedures as specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS.**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN. CORROSIVE.** Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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.

### FIRST AID:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

**NOTE TO PHYSICIAN-** Probable mucosal damage may contraindicate the use of gastric lavage.

## STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

**PESTICIDE STORAGE -** Store in original container in a cool (temperature no lower than 50°F or higher than 120°F), dry and locked storage area inaccessible to children. **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. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration. **RINSING INSTRUCTIONS -** Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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