Disinfects poultry and livestock buildings and equipment

Disinfects farm machinery and livestock transport vehicles

Disinfects veterinary clinics, kennels and pet shops

Disinfects for 7 days!

DC&R is effective against:

**Bacteria**
- Actinobacillus suis
- Bordetella bronchiseptica
- Campylobacter jejuni
- Clostridium perfringens
- Enterobacter aerogenes
- Escherichia coli
- Klebsiella pneumoniae
- Mycoplasma pneumoniae
- Pasturella multocida
- Proteus vulgaris
- Salmonella choleraesuis
- Salmonella enteritidis
- Salmonella typhimurium
- Streptococcus pyogenes

**Fungi**
- Candida albicans
- Trichophyton mentagrophytes

To be labeled “fungicidal”, a disinfectant need only to be effective against *Trichophyton mentagrophytes*.

**Virus**
- Avian influenza
- Avian laryngotracheitis
- Canine parvovirus
- Feline panleukopenia
- Infectious bronchitis virus
- Infectious bursal disease virus
- Newcastle disease
- Porcine respiratory and reproductive syndrome (PRRS)
- Pseudorabies
- Swine influenza virus
- Transmissible gastroenteritis

To be labeled “virucidal”, a disinfectant only has to pass one viral test. It is a fact, however, that many viruses are more difficult to control than others, such as the canine parvovirus, which has a hard outer shell making it difficult for chemical disinfectants to penetrate. DC&R is effective against:

Scientifically formulated DC&R Disinfectant can be used in a wide variety of settings, from the agricultural industry to animal health facilities.

*This booklet is intended only as a guide in providing general information associated with the use of disinfectant products. Always read and follow the label instructions on the package before using.*
**Triple Action Disinfectant**

DC&R is a unique formula that combines three germ killing active ingredients: HNP (19.20%), quaternary ammonia (3.08%) and formaldehyde (2.28%).

In addition, DC&R has a unique blend of inert ingredients including a hydroscopic material to prevent treated surfaces from drying rapidly and a wetting agent to help penetrate into cracks and crevices.

**Residually Superior**

One active ingredient, HNP, concentrates in a microfilm of moisture on a sprayed surface. Without a stabilizing agent, HNP would lose its effectiveness in a short period of time.

With a small amount of formaldehyde added however, the HNP is preserved in the formulation. Formalin stabilizes the HNP, and it becomes trapped in the film making it available for release.

As formaldehyde comes out of the film, HNP decomposes to produce safe, yet effective germ killing levels of this highly pathogenic substance. Tests have shown, in ambient temperatures, HNP will take 7 days to decompose—creating a residual, germ killing compound.

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**The Test of the Ideal Disinfectant—How Does DC&R Stack Up?**

- **Multi-Use Bactericide**
  - DC&R has been proven effective against 14 bacteria, 11 viruses and 2 fungi

- **Rapid Activity**
  - Initial knock down of pathogens in less than 10 minutes contact time

- **Residual Activity**
  - HNP gives DC&R the upper hand over the competition

- **Active in Organic Matter**
  - Ideal for farm use in footbaths, livestock facilities, and on machinery

- **Non-Corrosive**
  - No more corrosive than the water it is mixed with; pH of 7.1 in solution

- **Penetrates Deeply**
  - Includes surfactants to assist penetration into cracks and crevices

- **Deodorizing**
  - DC&R kills odor causing bacteria

- **Economical and Easy to Use**
  - Liquid formulation and 1:128 rate of use are very cost effective; less than half the cost of Virkon S

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**Biosecurity**

The objective of any livestock management program should be disease prevention through effective biosecurity practices. An effective biosecurity program allows one to keep diseases off farms; or if disease organisms were present, such a program would eliminate them or reduce them to a level of little or no significance.

Neogen has several products that should be part of your biosecurity program. DC&R Disinfectant is the ONLY 7-day residual disinfectant product on the market. Protect your investment with the only proven disinfectant to provide 7-day protection from costly disease outbreaks. DC&R is proven effective against 14 types of bacteria and 11 viral strains, including avian influenza and PRRS. In addition to a disinfectant program, Neogen also offers a complete line of rodenticides that will help make your biosecurity program complete.
Issues with Formaldehyde

The Occupational Safety and Health Administration (OSHA) has established permissible exposure levels (PEL) for formaldehyde gas to be:

2.0 ppm — 15 minute short term exposure limit (STEL).

Tests have been independently conducted by industrial hygienists on two separate occasions, both at production and packing facilities, as well as three swine and poultry operations. DC&R’s formaldehyde levels are low because it is in a liquid form contained in a microfilm on a sprayed surface. It is not in the air like formaldehyde gas.

Application Guidelines

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

DC&R is to be used for disinfecting hard, non-porous surfaces of farm buildings and equipment, which are used for poultry and livestock production and veterinary clinics, kennels and other non-livestock buildings. DC&R is especially suited for disinfecting equipment, which may harbor or spread many germs or microorganisms within the farm operation, veterinary facility, or to other farms. Apply DC&R Disinfectant with a mechanical spray device. Spray all surfaces to be disinfected until thoroughly wet. Dilute DC&R Disinfectant one ounce per gallon of water. Use as follows:

**Poultry and Livestock Buildings:**

Evacuate all animals from buildings. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Spray all surfaces and allow DC&R Disinfectant to saturate all surfaces for 10 minutes. Do not house poultry, livestock or employ equipment until treatment has been absorbed, set or dried.

Equipment inside the building (cages for laying hens, for example) should be first cleaned with soap or detergent, rinsed with water and then saturated as above with this product. Ventilate buildings, coops and other closed spaces. Do not spray onto feed to be consumed by animals.

**Fogging:**

DC&R Disinfectant can be used in fogging (wet mist) operations as an adjunct either preceding or following regular cleaning and disinfecting procedures. DC&R at 1 to 2% is appropriate. Fog (wet mist) until the area is moist using automatic wet fogger according to manufacturer’s use directions.

**For Canine Parvovirus and Feline Panleukopenia:**

DC&R Disinfectant is effective against canine parvovirus and feline panleukopenia when used at a three ounces per gallon dilution. To control canine parvovirus and feline panleukopenia, thoroughly clean all surfaces and mix three ounces of DC&R Disinfectant in one gallon of water. Apply as a spray. Allow to air dry or area may be rinsed after 45 minutes.

**All Other Non-Livestock Buildings and Facilities:**

Clean all surfaces thoroughly with soap or detergent and rinse with water. Spray all surfaces to be disinfected and allow to saturate all surfaces for 10 minutes. Ventilate buildings and other closed spaces.
Tryad®

Multiple-use cleanser, disinfectant and deodorant for hatcheries and livestock buildings

Tryad is an economical, one-step product formulated to clean, disinfect and deodorize hatcheries and livestock buildings. Tryad’s proven bactericidal and fungicidal formulation overcomes the problem of detergents interfering with the disinfectant activity of quaternary ammonium compounds. In fact, Tryad’s detergent ingredients enhance its bactericidal activity, resulting in an EPA-approved disinfectant use solution of 200 ppm of active quaternary ammonia compound. Tryad also contains sodium hydroxide to enhance its cleaning and disinfecting power.

Active ingredient:
N-alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride...............5%

Inert ingredients: ........................................95%
Contains compatible detergents
Total............................................................100%

Features and Benefits

- Multi-purpose deodorizer, cleaner and disinfectant
- First successful combination of quaternary ammonium compound and a detergent
- Germicidal efficacy thoroughly tested and proven
- Provides a fresh, clean smell

General Cleaning
Dilute at ½ ounce per gallon of water

General Disinfecting
Dilute at 1 ounce per gallon of water and spray to the point of runoff

Sanitizing Drinking Water Systems
Run Tryad through proportioner at 1 ounce per gallon

Additional Disinfectants

Neogen offers a complete line of disinfectants for the agricultural and animal health industries
Spectrasol®
Cleaner ■ Disinfectant ■ Detergent
Deodorizer ■ Virucide
Fungicide (against pathogenic fungi)
Mildewstat (on hard, non-porous surfaces)

Spectrasol is a phosphate-free quaternary ammonium formulation designed to provide effective cleaning, deodorizing and disinfection.

**Active ingredients:**
- Octyl decyl dimethyl ammonium chloride .......... 3.255%
- Dioctyl dimethyl ammonium chloride............. 1.628%
- Didecyl dimethyl ammonium chloride............. 1.628%
- Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium chloride .................. 4.339%

**Inert ingredients:** ............................................. 89.150%
**Total** .......................................................... 100.000%

**General Cleaning**
Apply product to soiled area with a mop, cloth, sponge, or hand pump trigger sprayer. Product can be diluted at one ounce per gallon or applied at full strength. Thoroughly wet soiled surface and scrub as necessary. Rinse surface with potable water and wipe dry with a dry paper towel or lint-free cloth.

**Disinfection**
For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. Add one ounce of product per gallon of water. Apply solution with a mop, cloth, sponge, or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid.

**Features and Benefits**
- Economical to use; one ounce of concentrate diluted in one gallon of water provides an effective solution for disinfecting
- Cleans as it disinfects, and deodorizes areas that are prone to odors caused by microorganisms
- Effective as a fungicide, virucide and mildewstat
- Non-corrosive and safe to use on cages and tables; will not dull high-gloss floor finishes, even with repeated use
Parvosol® II RTU
Cleaner ▪ Disinfectant ▪ Virucide
Deodorizer ▪ Tuberculocidal
Fungicide (against pathogenic fungi)
Mildewstat (on hard, inanimate surfaces)

Parvosol II RTU is the next generation of synergized quaternary ammonium compounds with even more effective disinfecting power, now ready to use from the bottle.

Active ingredients:
n-alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides.............. 0.105%
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides........ 0.105%

Inert ingredients:............................................99.790%
Total................................................................100.000%

Features and Benefits
■ Parvosol II RTU is ready to use straight from the bottle; no mixing, no mess
■ Unlike concentrated products that lose their efficacy if not used within a 24-hour period when hard water is used in the dilution, Parvosol remains stable in its original container
■ Parvosol II RTU also cleans and deodorizes as it disinfects

Effective against
Bacteria
Escherichia coli
Pseudomonas aeruginosa
Salmonella choleraesuis
Staphylococcus aureus
Methicillin resistant Staphylococcus aureus
Vancomycin intermediate resistant Staphylococcus aureus
Vancomycin resistant Enterococcus faecalis

Fungi
Trichophyton mentagrophytes

Tuberculocidal activity
This product exhibits disinfectant efficacy against Mycobacterium tuberculosis (BCG) in 10 minutes at 20°C when used as directed.

Virus
Canine Parvovirus
HIV-1
Hepatitis B Virus (HBV)
Poliovirus Type 1
Hepatitis C Virus (HCV)
**Ordering Information**

To order: call **800/621-8829** (USA/Canada) or **859/254-1221**

### DC&R®

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<th>Item No.</th>
<th>Size</th>
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<tbody>
<tr>
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<tr>
<td>142145</td>
<td>2.5 gallons</td>
<td>2 per case</td>
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<tr>
<td>142135</td>
<td>55 gallons</td>
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### Tryad®

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<td>1 gallon</td>
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<tr>
<td>148869</td>
<td>55 gallons</td>
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### Spectrasol®

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### Chlorhexidine Solution, 2%

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### Parvosol® II RTU

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<tbody>
<tr>
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