

	SUBJECT: SAFETY: MEDIC UNIT DECONTAMINATION OPERATIONS		RECOMMENDED BEST PRACTICE	
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DEVELOPED BY: RICK COLELLA & OTHERS	EFFECTIVE DATE: 15 APRIL 2020	REVISION NUMBER:	RESCINDS:	AMENDS:

I. **Purpose** To establish recognized Safe Practice guideline for rapid decon of medic units, to be followed after the transport with a possible Covid-19 patient. To decontaminate the medic unit as well as personnel to limit the downtime of the medic unit and crew. This should not take the place of recommended practices for decontamination of medic units, when time allows there may still be the need to thoroughly clean and decontaminate the medic unit per the home agencies policies.

II. **Personal Precautions**

- a. Eating, drinking, chewing gum, using tobacco increases the probability of hand to mouth cross contamination These practices are prohibited in the contamination zone.
- b. Personnel must wear a clean pair of gloves and mask, prefer n-95 or better, for personal safety and respiratory protection from inhaling the aerosolized product.
- c. Hands and Face must be thoroughly washed after decon procedures.

MAINTAIN PROPER PERSONAL HYGENE

III. **Operations**

- a. All personnel must be thoroughly briefed on anticipated hazards, equipment to be worn, safety practices to be followed, emergency procedures, and communications.
- b. Personnel and equipment in the contaminated area will be minimized, consistent with effective incident operations.

IV. **Procedure**

- a. ACES will place 1 electric paint sprayer, 1 - 50ft. extension cord, and 2 ½ gallon containers of NDC Disinfectant Cleaner in the area of the Emergency Department designated by the Hospital.
- b. To maximize potency of the solution this will be mixed before each application.
- c. Keeping the stretcher and monitor out of the truck.

- d. Mix 1 cap full of NDC cleaner and water in the spray canister.
- e. Begin with spraying the stretcher with solution and proceed to the left side of the cab of the truck.
- f. Beginning with the left side of the cab of the truck, spray the interior dash, steering wheel, seats and floor mats. When exiting the truck then spray the exterior handle. **DO NOT SPRAY ELECTRONIC EQUIPMENT DIRECTLY**
- g. Working your way around to the right-side cab of the truck, spray door handles and any contact surfaces.
- h. Spray the interior of the right side of the truck the same as the left side of the truck.
- i. Working to the rear of the truck, enter the side entrance of the patient cab and spray, what can be reached from the step.
- j. Entering the rear of the patient compartment spray the remaining areas that have not been touched already.
- k. When the balance of the vehicle has been completed you can proceed to decon personnel as needed.

V. **Equipment Maintenance / Care**

- a. After each use rinse the container and run clean water through the nozzle.
- b. When one container of concentrate has been used, notify ACES to replace the empty container. **DO NOT DISCARD EMPTY CONTAINERS**

- NDC™ is a concentrated, pH neutral, broad spectrum quaternary disinfectant designed to clean and disinfect a wide variety of hard, non-porous inanimate surfaces. Its pleasant fragrance makes this an ideal cleaner and disinfectant in all facilities that need to protect from harmful infectious diseases and infestations.

VERSATILE & EFFECTIVE

NDC will clean and disinfectant hard, non-porous inanimate surfaces such as floors, toilets and urinals, glass and mirrors, metal and stainless steel, porcelain, ceramic tile, plastic, showers, stalls, and cabinets. Its quaternary, neutral pH formula makes it an effective cleaner and will not harm or dull high gloss floor finishes or painted surfaces.

ELIMINATES MALODORS

NDC is available in our pleasant Morning Fresh™ scent. It kills a wide variety of microorganisms, which are the main source of malodors. The efficacy and fragrance combine to eliminate even the toughest facility odors in places such as garbage rooms, restrooms and waste disposal areas.

KILLS GERMS IN MINUTES

NDC is effective against dangerous bacteria and viruses such as:

- VRE
- MRSA
- HIV-1 & HIV-2 (AIDS Virus)
- 2009 H1N1
- HBV
- HCV
- Herpes (Simplex 1)
- Human Coronavirus
- Many More

Note: Some claims are not approved in Canada and the State of California.
Consult the product label for detailed claims.

Directions for Use

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.

DEODORIZATION - To deodorize, apply this product as indicated under the heading **DISINFECTION**.

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 spray mist. For heavily soiled areas, a pre-cleaning step is required.

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*, *Escherichia coli* (clinical isolate), *Fusobacterium necrophorum*, *Klebsiella pneumoniae* subsp. *pneumoniae*, *Lactobacillus casei* subsp. *raimannii*, *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) and Vancomycin intermediate resistant *Staphylococcus aureus* (VISA), Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) NRS 123 Genotype USA400. Community Associated Methicillin resistant *Staphylococcus aureus* (CA-MRSA) NRS 384 Genotype USA300.

BACTERICIDAL STABILITY OF USE-SOLUTION: Prepare a fresh solution for each use.

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 A2/Hong Kong, Vaccinia, Rotavirus, Human Coronavirus (ATCC VR-740, Strain 229E), SARS Associated Coronavirus, Rabies Virus, 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 OF 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.

SAFETY DATA SHEET

State Industrial Products
5915 Landerbrook Drive
Mayfield Heights, OH 44124
To Order Call: 1-866-747-2229

6935 Davand Drive
Mississauga, Ontario L5T 1L5
To Order Call: 1-800-668-6513

Royal Industrial Park, Bldg "M"
Local #5, Carr 069, km 1.5 Palmas
Cataño, PR. 00962
To Order Call: 787-275-3185



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NDC MORNING FRESH DISINFECTANT CLEANER
Product Description: A formulated cleaner, disinfectant, detergent, fungicide, virucide and mildewstat.
EPA Registration Number: 1839-169-70799 DIN 02245816
24 Hour Emergency CHEMTREC Number: 800-424-9300
MSDS Number: 700467
EPA Establishment Number: 70799-OH-2

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

FIFRA Hazard Classification:

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 clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco.

Skin corrosion/irritation: Category 1A, B, C

Acute toxicity; inhalation: Category 4

Acute toxicity; oral: Category 4



Corrosive

Exclamation
Mark

DANGER

Hazard Statements:

H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. H302 Harmful if swallowed.

Precautionary Statements:

P261 Avoid breathing vapors. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, protective clothing, and eye protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight	ACGIH	OSHA
Octyl Decyl Dimethyl Ammonium Chloride	68424-95-3	1.63%	NE	NE
Diocetyl Dimethyl Ammonium Chloride	5538-94-3	0.81%	NE	NE
Didecyl Dimethyl Ammonium Chloride	7173-51-5	0.81%	NE	NE
Alkyl (C14, 50%; C12, 40%; C16, 10%) Dimethyl Benzyl Ammonium Chloride	68424-85-1	2.17%	NE	NE
Linear Alcohol Ethoxylates	34398-01-1	<3.0%	NE	NE
Ethylenediamine Tetraacetic Acid	64-02-8	<2.0%	2 mg/m ³ (ceiling)	2 mg/m ³ (ceiling)
Ethanol	64-17-5	<5.0%	1000 ppm	1000 ppm

The exact percentages have been withheld as a trade secret.

4. FIRST AID MEASURES

P301+P312 IF SWALLOWED: call a POISON CENTER or physician if you feel unwell. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or physician if you feel unwell. P332+P313 IF SKIN irritation occurs: Get medical attention.

5. FIRE FIGHTING MEASURES

Flashpoint(Method): >200°F [93°C]

Lower Explosive Limit(LEL): NA Upper Explosive Limit(UEL): NA Autoignition Temperature: NA

Flammable Properties: None Expected

Extinguishing Media: Carbon Dioxide, dry chemical, foam.

Fire Fighting Instructions: Wear a self-contained breathing apparatus with full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area. Halt spill at source, dike and contain spill. Flush with plenty of water to drain. Dispose of in accordance with Federal, State and Local Regulations regarding waste disposal.

7. HANDLING AND STORAGE

P402 Store in dry place. P405 Store locked up.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use general or local ventilation to keep exposure levels below exposure limits.

Personal Protective Equipment:

Respiratory: Normal room ventilation is adequate. Use a NIOSH/MHSA approved respirator if exposure limits are exceeded.

Eye: Wear approved safety glasses or goggles with unperforated eyeshields where splashing may occur.

Skin: For repeated or prolonged contact, wear chemically impervious gloves such as Nitrile.

Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, greenish blue.

Physical State: Liquid.

Solubility in Water: 100%

Boiling Point: >212 °F[100°C]

Freezing Point: NA

Melting Point: NA

Odor: Fragranced.

pH: 6.4 +/- 0.4

Diluted pH: NA

Specific Gravity: 1.010 +/- 0.010

VOC Content: 0%

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

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

Incompatibility: Nitrous oxides, ammoniacal vapors.

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide

11. TOXICOLOGICAL INFORMATION

This product contains no ingredient at 0.1% or greater that is listed as a human carcinogen.

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>LD50</u>	<u>LC50</u>
Octyl Decyl Dimethyl Ammonium Chloride	68424-95-3	NE	NE
Diocetyl Dimethyl Ammonium Chloride	5538-94-3	NE	NE
Didecyl Dimethyl Ammonium Chloride	7173-51-5	NE	NE
Alkyl (C14, 50%; C12, 40%; C16, 10%) Dimethyl Benzyl Ammonium Chloride	68424-85-1	426 mg/kg (oral rat)	NE
Linear Alcohol Ethoxylates	34398-01-1	0.7-1.7 g/kg (oral rat)	NE
Ethylenediamine Tetraacetic Acid	64-02-8	3030 mg/kg (oral rat)	48000 ppm/<4 hr (rat)
Ethanol	64-17-5	13.7 mg/Kg (rat oral)	14.2 g/L 96 hour (flathead minnows)

12. ECOLOGICAL INFORMATION

This product is toxic to fish.

13. DISPOSAL CONSIDERATIONS

P501 Dispose of container in accordance with all Federal, State and Local Regulations regarding waste disposal.

14. TRANSPORT INFORMATION

DOT Shipping Data: Not Regulated

Canadian TDG: Not Regulated

For International Shipments by Air: Not Regulated

For International Shipments by Vessel: Not Regulated

15. REGULATORY INFORMATION

TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory.

CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDSL.

Proposition 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or reproductive harm, at reportable levels under the statute.

SARA 313: This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372).

VOC: 0%

HMIS RATING: HEALTH = 1 FLAMMABILITY = 0 REACTIVITY = 0 PPE = B

WHMIS RATING: Not regulated by WHMIS

16. OTHER INFORMATION

NA = Not Available or Not Applicable

NE = Not Established

Read and follow all label directions and precautions before using the product. This product is intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE. KEEP OUT OF THE REACH OF CHILDREN. While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.