

DISINFECTING WITH
CONFIDENCE

TODAY'S TOPICS

Glossary of Common Terms

Microorganism Removal Methods

Characteristics of Disinfectant

Common Misconceptions

Emerging Issues Update

GLOSSARY OF TERMS

BACTERIA

Microorganisms, often composed of one cell with a cell wall and a nucleus, sometimes containing chlorophyll. Exist free from host cells. Range of benefits & dangers.

- »» Eat, Excrete, Reproduce
- »» Gram Positive vs Gram Negative
- »» Dangerous Spore Forms
- »» Forms in the three distinct shapes
- »» Organism Kill



GLOSSARY OF TERMS

FUNGUS

A wide range of spore-forming eukaryote organisms. Unable to produce chlorophyll and needs a host similar to a parasite.

- »» Sensitive to higher pH
- »» Moisture and heat create ideal environments
- »» Transferrable from environment, human to human or animal to human
- »» Examples: Trichophyton mentagrophyes (athlete's foot) or Aspergillus niger (Mildew)
- »» Organism kill

GLOSSARY OF TERMS

VIRUS

An infectious agent composed entirely of protein and nucleic acids. Can reproduce rapidly in living cells causing infection.

- » Needs living cells as host
- » **Enveloped:** Coronavirus, HIV, Hepatitis B Virus
- » **Non-Enveloped:** Norovirus, Poliovirus, Adenovirus, Rotavirus
- » Inactivation Required

GLOSSARY OF TERMS



Germ - A generic term of microorganisms usually for pathogenic organisms.

Pathogenic - Microorganism that is capable of causing disease.

Anti-Microbial Pesticides - substances or mixtures of substances used to destroy or suppress the growth of harmful microorganisms such as bacteria, viruses, or fungi on inanimate objects and surfaces.

Hospital Grade - EPA approved against Staph, Salmonella & Pseudomonas.

One Step - Effective in the presence of 5% serum.

Bloodborne Pathogen Compliant - Effective against HBV & HIV (OSHA).

Dwell Time - The amount of time a formula needs to be wet on a surface to achieve a specific kill claim.

EPA - Environmental Protection Agency whom governs surface antimicrobial claims

FDA - US Food & Drug Administration whom governs items that enter the body, used to remove pathogens on surfaces that will enter the body or applied to the body.

CDC - Center for Disease Control & Prevention focused on public health and the prevention of disease spread in the US.

4 WAYS TO
REDUCE
MICROORGANISMS

- » **CLEANING**
- » **SANITIZING**
- » **DISINFECTING**
- » **STERILIZING**

BASIC CLEANING



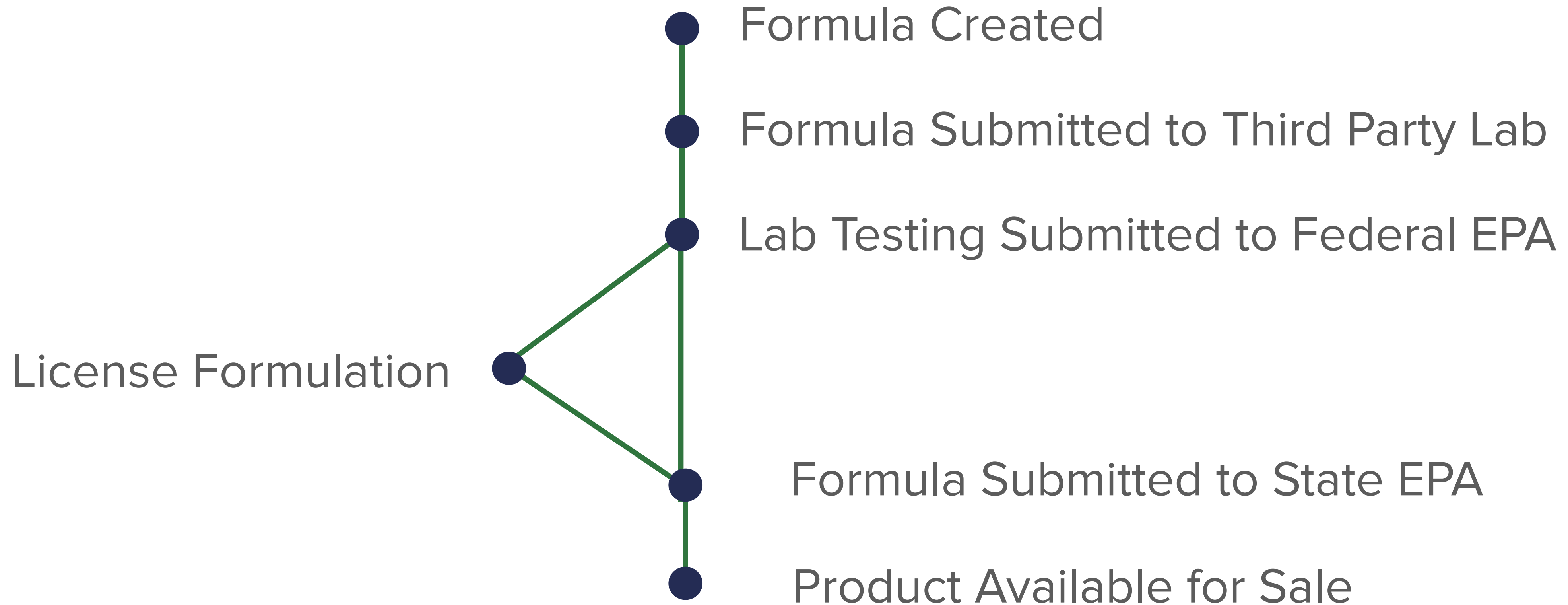
Physical Removal of Organisms

Food Source Removal

Disruption in pH

Required Pre-Step in many situations

HOW A CLEANING PRODUCT BECOMES REGISTERED



FEDERAL INSECTICIDE, FUNGICIDE & RODENTICIDE ACT (FIFRA)

7 U.S.C. §136 et seq. (1996)

7 U.S.C. The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) provides for federal regulation of pesticide distribution, sale, and use. All pesticides distributed or sold in the United States must be registered (licensed) by EPA. Before EPA may register a pesticide under FIFRA, the applicant must show, among other things, that using the pesticide according to specifications "will not generally cause unreasonable adverse effects on the environment."

SANITIZING BASICS



Effective against 99.9% of
Approved Microorganisms

Relatively Safe, Air Dry Application

15-60 Second Dwell

Food Grade vs. Non-Food Grade

DISINFECTING BASICS



Effective against 99.999% or
99.9999% of Approved
Microorganisms

Traditional 10 Minute Dwell

New Technology

May Require Rinse

DISINFECTANT

IDENTIFIERS

- » Organism Claims & Dwell Times
- » Dilution
- » Base Active
- » Surface Compatibility
- » Approved Application Techniques
- » Color
- » Fragrance

FINDING IDENTIFIERS ON A LABEL



ACTIVE INGREDIENTS	
Octyl decyl dimethyl ammonium chloride.....	3.34%
Diocetyl dimethyl ammonium chloride.....	1.33%
Didecyl dimethyl ammonium chloride.....	2.00%
Alkyl (C ₁₄ 50%; C ₁₂ 40%; C ₁₆ 10%) dimethyl benzyl ammonium chloride.....	4.45%
OTHER INGREDIENTS	
TOTAL.....	88.88%
TOTAL.....	100.00%

EPA REG. NO. 6836-348-8155 EPA EST. NO. 8155-OH-1

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF IN 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. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. **IF SWALLOWED:** Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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

See back panel for Precautionary Statements.

NET CONTENTS: 64 Fl. Oz.

LABEL# 239F
093019

Use this product in: health care facilities; athletic facilities, hotels and schools. Use this product on washable hard, non-porous surfaces of: doorknobs, floors, and other hard nonporous surfaces made of: laminated surfaces, metal, upholstery - vinyl and plastic. This product is effective against: 3 minute contact time: Pseudomonas aeruginosa, Salmonella enterica, Staphylococcus aureus.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product is not for use on medical device surfaces.

Preparation of Disinfectant Use-Solution: Add 1 oz. per gallon of water. For heavy duty use, add 4 oz. per gallon of water.

DISINFECTION DIRECTIONS: Spray use solution 6-8 inches from hard, nonporous surfaces, thoroughly wetting surfaces. Treated surfaces must remain wet for 3 minutes. Rub with a brush, sponge or cloth. Do not breathe spray. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. Rinse all surfaces that come in contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes.

Bactericidal Stability of Spray Use-Dilution: Tests confirm that the use solution of this product, when stored in a sealed container such as a spray bottle, remains effective for up to 28 days. If product becomes visibly contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed or if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** Open dumping is prohibited. Store in original container in areas 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. Triple rinse as follows: Fill container 1/4 full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times. The container may be crushed, recycled or punctured and disposed 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.

Manufactured By:
CANBERRA CORPORATION
3610 N. Holland-Sylvania Rd.
Toledo, OH 43615
P 419-841-6616 • F 419-841-7597

093019

LABEL# 239F

Surface Compatibility

Dilution

Dwell Time & Application Instructions

Basic Active

EPA Establishment Number

EPA Product Number

FINDING & UNDERSTANDING AN EPA NUMBER

Registering Company	Formula Number	Sub-Registered Brand
6836	- 348	- 8155



[About Us](#) [Services](#) [Private Branding](#) [Products](#) [News & Events](#) [Contact Us](#)

Search

JAWS 9004 » Home » Search

Husky 824

Quick Care Disinfectant



A concentrated four-in-one disinfectant that cleans, disinfects, deodorizes and sanitizes a wide range of surfaces. This alkaline pH product is effective at killing a wide range of bacteria and viruses in 3 minutes or less. Effective in killing odor causing bacteria as well as able to sanitize soft surfaces such as drapes, furniture cushions and more.



Disinfectant Claims

Product Category

Approved Chemicals
Concentrated

- [Add To Cart](#)
- [Download SDS](#)
- [Download Job Card](#)
- [Download Product Data Sheet](#)
- [Download Primary Label](#)
- [Download Secondary Label](#)
- [Download Ingredient Disclosure](#)

FINDING A MASTER LABEL

1. Search the EPA website

The screenshot shows the EPA website's search interface. The browser address bar displays 'iaspub.epa.gov'. The navigation menu includes 'Environmental Topics', 'Laws & Regulations', and 'About EPA', with a search bar containing 'Search EPA.gov'. The main heading is 'Pesticide Product and Label System'. Below this, a paragraph explains that the PPLS provides pesticide product labels in Adobe PDF format, accepted by EPA under Section 3 of the FIFRA Act, with new labels added on July 08, 2020. A 'More' link is provided. A search form is shown with the following fields:

- EPA Registration, Distributor Product, or Special Local Need Number:** A text box containing '6836-348'. Below it, a note states: '6836-348' registration Number (EPA Reg. No.) appears on the label of all registered pesticides sold in the United States. To search for a particular Section 3 registration, enter the entire registration number (including the hyphen with no leading zeroes (i.e. 123456-12345)), enter just the company number (the first set of digits before the hyphen) to search for all products related to that company (i.e. 123456)... A 'More' link is provided.
- Product or Alternative Brand Name:** An empty text box. Below it, instructions state: 'Enter the name of the product. As you type, options will be presented to you. Keep in mind that product names may vary, so if you don't find the product you are looking for, try the EPA Registration Number Search above.'
- Company Name:** An empty text box. Below it, instructions state: 'Enter the name of the company. Some companies may have several divisions that manufacture and market pesticides products. You can select among these divisions using the drop-down list or choose the root of the company name (e.g., "Bayer" or "3M") to see products associated with all the divisions.'

2. Review most recent submission



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

July 12, 2018

Jennifer DePietro
Regulatory Affairs Associate
Lonza Inc.
90 Boroline Road
Allendale, NJ 07401

Subject: PRIA Label Amendments – Changes to efficacy labeling regarding organism contact times
Product Names: Lonzagard RCS-128 Plus
EPA Registration Numbers: 6836-348
Application Date: February 19, 2018
Decision Numbers: 538728

Dear Ms. DePietro:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E), 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

PRIA Non-New-Use Label Acceptable v.20180712

EMERGING PATHOGEN GUIDANCE

1. EPA and the CDC recognize that certain microorganisms can be ranked with respect to their tolerance to chemical disinfectants.
2. The Spaulding Classification model, used by CDC, tiers microorganisms in accordance with the level of resistance to being killed (inactivation) by typical disinfectant products.
3. The three categories are **Enveloped Viruses, Large Non-Enveloped Viruses and Small Non-Enveloped Viruses**

SPAULDING CLASSIFICATIONS



Endospores

Mycobacteria

Nonlipid Viruses

Fungi

Vegetative Bacteria

Lipid Viruses

ASSUME TO KILL

PROOF NEEDED

Emerging Enveloped Virus

(1) Small or Large Non-Enveloped Virus

Emerging Large Non-Enveloped Virus

(1) Small Non-Enveloped Virus

Emerging Small Non-Enveloped Virus

(2) Small Non-Enveloped Virus

EMERGING PATHOGEN COMPLIANCE EXAMPLES

Emerging Viral Pathogen Claims

Product Name -or- this product qualifies for emerging viral pathogen claims per the EPA's 'Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels' when used in accordance with the appropriate use directions indicated below:

Product Name -or- this product meets the criteria to make claims against certain emerging viral pathogens from the following viral categories:

- Enveloped viruses
- Large non-enveloped viruses
- Small non-enveloped viruses

<i>For an emerging viral pathogen that is a/an...</i>	<i>...follow the directions for use for the following organisms on the label:</i>
Enveloped virus	<ul style="list-style-type: none"> • Human Rotavirus • Rhinovirus Type 39 • Hepatitis A Virus • Poliovirus Type 1 • Canine Parvovirus
Large non-enveloped virus	<ul style="list-style-type: none"> • Rhinovirus Type 39 • Hepatitis A Virus • Poliovirus Type 1 • Canine Parvovirus
Small non-enveloped virus §	<ul style="list-style-type: none"> • Hepatitis A Virus § • Poliovirus Type 1 § • Canine Parvovirus §

§ The directions for use for the supporting viruses with the longest contact time should be used for small non-enveloped emerging viruses. In this case, 10 minutes for the indicated viruses.

Product Name -or- this product has demonstrated effectiveness against viruses similar to **[name of emerging virus]** on **[hard, non-porous surfaces]**. Therefore, *Product Name* -or- this product can be used against **[name of emerging virus]** when used in accordance with the directions for use against **[name of supporting virus(es)]** on **[hard, non-porous surfaces]**. Refer to the **[CDC or OIE]** website at **[pathogen-specific website address]** for additional

This product qualifies for emerging viral pathogen claims per the EPA's 'Guidance to Registrants: Process for Making Claims Against Emerging Viral Pathogens not on EPA-Registered Disinfectant Labels' when used in accordance with the appropriate use directions indicated below.

This product meets the criteria to make claims against certain emerging viral pathogens from the following viral category[ies]:

- Enveloped Viruses
- Large, non-enveloped virus
- Small, non-enveloped virus

For an emerging viral pathogen that is a/an...	...follow the direction for use for the following organisms on the label:
Enveloped virus	Enterovirus D68 Feline Calicivirus
Large, non-enveloped virus	Enterovirus D68 Feline Calicivirus
Small, non-enveloped virus	Enterovirus D68 Feline Calicivirus

[Lonzagard RCS-128 Plus] has demonstrated effectiveness against viruses similar to **[name of emerging virus]** on **[hard, porous and/or non-porous surfaces]**. Therefore, **[Lonzagard RCS-128 Plus]** can be used against **[name of emerging virus]** when used in accordance with the directions for use against Enterovirus D68 and Norovirus [Norwalk Virus] on **[hard, porous/non-porous surfaces]**. Refer to the **[CDC or OIE]** website at **[pathogen-specific website address]** for additional information.

OR

[Name of illness/outbreak] is caused by **[name of emerging virus]**. **[Lonzagard RCS-128 Plus]** kills similar viruses and therefore can be used against **[name of emerging virus]** when used in accordance with the directions for use against Enterovirus D68 and Norovirus [Norwalk Virus] on **[hard, porous/non-porous surfaces]**. Refer to the **[CDC or OIE]** website at **[website address]** for additional information.

COVID-19

SARS-COV-2

- » **Background:** An organism from the betacoronavirus family. Others include Human Coronavirus, SARS & MERS. First classified 2019-nCov. Now called Covid-2019
- » **Virus Classification:** Enveloped/Lipid Virus
- » **Transmission:** Spread via droplets from person to person. Unknown surface stability.
- » **Symptoms:** Respiratory illness causing fever, cough and shortness of breath. Can lead to pneumonia in lungs.

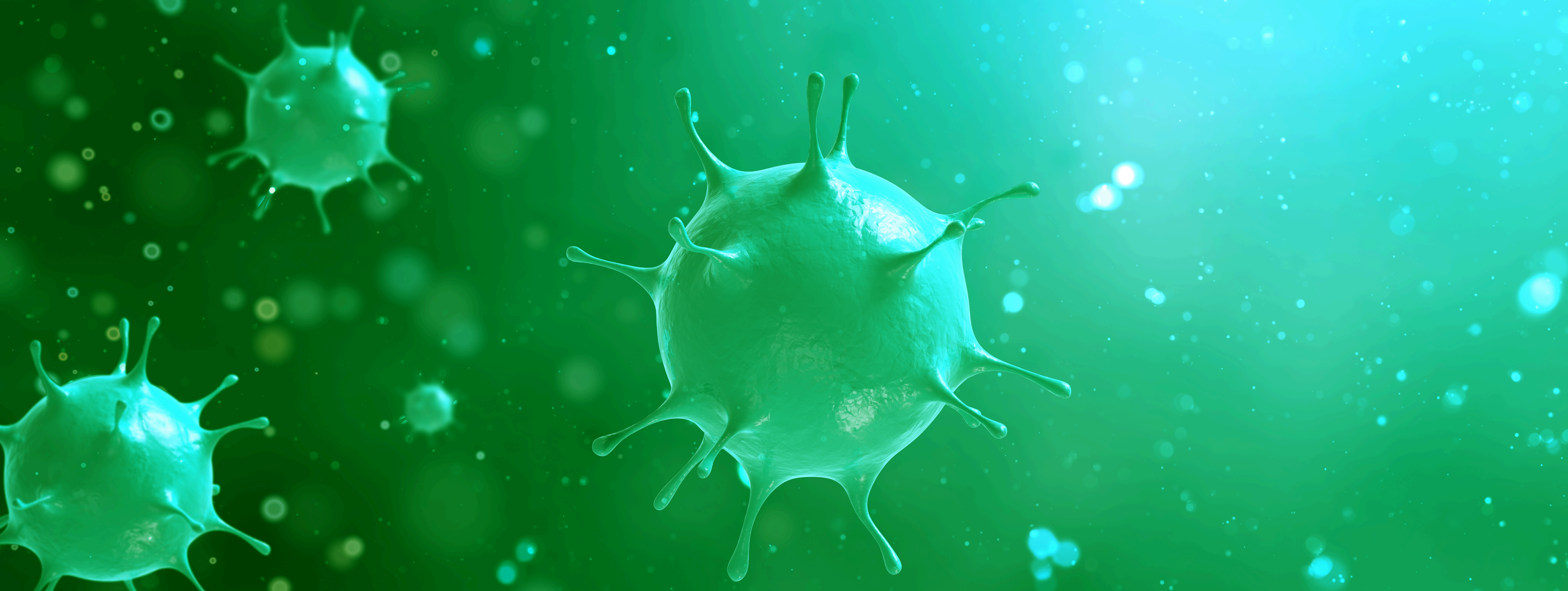
COMMON QUESTIONS

- »» What do I use on my keyboards?
- »» Can I use hand sanitizer wipes for hard surface sanitizing too?
- »» Can I make my own wipes?
- »» What are your thoughts on residual claims?
- »» Why don't you sell chlorine tablets?

Most Suggested

DISINFECTANTS

- » **Filip 319 NASD Non-acid Surface Disinfectant Cleaner**
- » **Filip 814 Strike Bac Q/T Tuberculocidal Spray Disinfectant Cleaner**
- » **Husky 824 Quick Care Disinfectant**
- » **Husky 892 Arena Plus Disinfectant**
- » **Husky 815 HCD Disinfectant**



THANK YOU