



TECHNICAL SERVICES BULLETIN (3/14/20)

Nisus DSV and Coronavirus at a Glance

ALWAYS READ AND UNDERSTAND LABEL DIRECTIONS COMPLETELY BEFORE ANY APPLICATION

Previous Versions Obsolete

The Virus

Q. What is COVID-19?

A. COVID-19 is the disease caused by SARS-CoV-2.

Q. What is SARS-CoV-2?

A. The virus has been named "Severe Acute Respiratory Syndrome Coronavirus 2" or "SARS-CoV-2" and was identified in late 2019. It is a type of enveloped human coronavirus.

Q. What is the source of SARS-CoV-2?

A. This virus likely originated in bats prior to transmission to humans via direct contact with bats or via contact with animals infected by bats in Asia.

Q. Is the virus food-borne?

A. At this time, the virus is believed to be transmitted only via person to person contact by touch or by inhalation near an infected person or by contact with surfaces which harbor the virus.

Q. Do all infected people show symptoms?

A. No. Some people show symptoms, and some show no symptoms (asymptomatic). Those who show no symptoms are particularly a concern in that they can spread the virus without knowing. The incubation period is typically several days or longer.

Q. Do we expect the virus to die off with warm weather?

A. Nobody knows at this point. The CDC is hopeful that the virus will run the traditional cycle of dying off in warm weather, but the concern remains that it may re-emerge with next cool season.

Q. How can we stop the spread of COVID-19?

A. Follow guidelines of the Centers for Disease Control and Prevention (CDC) at <https://www.cdc.gov/coronavirus/2019-nCoV/index.html>.

Better science for a better world.

100 Nisus Drive, Rockford, TN 37853 • 800-264-0870 • nisuscorp.com

Applying Nisus DSV

Q. What exactly is Nisus DSV?

A. Nisus DSV is a disinfectant, sanitizer and virucide. It is a concentrate of four active ingredients (quaternary ammonias):

Octyl Decyl Dimethyl Ammonium Chloride	1.65%
Didecyl Dimethyl Ammonium Chloride	0.825%
Diocetyl Dimethyl Ammonium Chloride	0.825%
Alkyl Dimethyl Benzyl Ammonium Chloride	2.200%

Q. "Human coronavirus" is on the label as a target organism. Since SARS-CoV-2 is a type of human coronavirus, can we claim efficacy against SARS-CoV-2 virus, the cause of COVID-19?

A. SARS-CoV-2 is a new or novel virus. Only two categories of products may claim efficacy...those products which are part of the emerging pathogens program and those products not part of the program, but which EPA has deemed effective against SARS-CoV-2. Both categories of acceptable products are found on List N, published by EPA. The base for Nisus DSV, 10324-80, was added to EPA's List N on 3/13/20. As a result, **EPA has determined that Nisus DSV is effective against SARS-CoV-2, the cause of COVID-19. EPA instructs applicators to follow the label instructions for (human) coronavirus. The label rate is 2 oz. Nisus DSV per gallon of water with a minimum of 10-minute contact time.**

Q. Is any product labeled specifically for the control of SARS-CoV-2?

A. As of March 2020, no product is labeled specifically for SARS-CoV-2. The virus was only identified in late December 2019, so no labels have that strain listed.

Q. What is the label rate other than for human coronavirus?

A. For most applications, the label rate is currently 1 to 2 fluid ounces per gallon of water with varying contact times. Some applications require differing rates, so as always, read and follow the label.

Q. Nisus DSV has a DANGER signal word. Why is that?

A. If you look at the Precautionary Statements, note that this product, as with most concentrated quats, can be harmful if splashed into the eyes. Once diluted, while care should be taken, the danger is dramatically reduced.

Q. Is Nisus DSV a restricted use pesticide?

A. No. Nisus DSV is a general use pesticide.

Q. Do I need eye protection and gloves?

A. Read the label for instructions on personal protective equipment.

Q. Does Nisus DSV leave residual protection?

A. Once the product dries, no residual should be expected. This is true of any "quat" product on non-porous surfaces.

Q. What is the difference between sanitizing and disinfection?

A. Sanitizing requires killing 99.999% of organisms tested with a residence time of 30 seconds using the Official Detergent Sanitizer Test. Disinfection is killing 100% of organisms in 10 minutes using the AOAC Use Dilution Test.

Q. Can I use a concentration stronger than the label rate?

A. It is a violation of federal and state law to use a concentration stronger than the label permits for that use.

Q. Can I use less than the label rate?

A. For an antimicrobial, you should always use the label rate and not less.

Q. Can I fog the interior of a customer's building with Nisus DSV?

A. The label permits fogging in certain situations, but the product will be more effective if liquid is applied directly to surfaces. **Note that "fogging" on the label is a wet mist and not thermal or other traditional "fogging" application.** The disadvantage of "fogging" is that the droplets will settle on horizontal surfaces by gravity and not reach under surfaces such as beneath handrails.

Q. Will Nisus DSV work on soft surfaces such as pillows?

A. Nisus DSV is formulated for hard non-porous surfaces. Some surfaces such as carpets are on the label but application to a porous surface will not be as effective, which is why cloth, textiles, clothing, etc., are not on the label as a site.

Q. How is Nisus DSV applied?

A. It can be applied via mop and bucket, sprayers, sponge, soaking, and in limited uses, by fogging (defined as wet misting). See the label for full details.

Q. Is rinsing required?

A. Rinsing is required after treating food contact surfaces for sanitizing for 30 seconds or disinfecting for 10 minutes.

Q. Can diluted Nisus DSV be applied to hands to replace a hand sanitizer?

A. No. Nisus DSV is for surfaces only and is not for use on people or animals.

Q. After treating, how long should a customer remain out of the area?

A. Customers do not need to be out of the area for any given time while Nisus DSV is being applied to surfaces unless the state requires customer (commonly in schools) to remain out of the area. This will vary by state. Customers should not touch surfaces until dry.

Q. Is a special state license required for using Nisus DSV by professionals?

A. Nisus DSV does list flies as a target pest on the label so for those applications, the general pest control certification will be adequate for that purpose. For sanitizing and disinfection, most states permit use under the general pest control category. Some states have a special category in the same category as mold control. Always check state requirements for company certification. Certification does not apply to use by homeowners.

Q. Does this mean that professional applicators must be certified?

A. Usually not. This is the category for at least one employee to hold. State requirements may vary so always check state regulations.

Q. Does my insurance cover sanitizing and disinfection?

A. Insurance policies vary and the coverage that the company has chosen will vary dramatically. For any questions about coverage, contact the insurance agent.

Q. Can Nisus DSV be applied to soil?

A. Nisus DSV is for hard, non-porous surfaces and some soft surfaces. Nisus DSV should not be applied to soil.

Q. Does Nisus DSV have a chemical odor?

A. Nisus DSV has a pleasant fresh citrus fragrance with no chemical odor.

Q. What is the shelf life of Nisus DSV?

A. The concentrate should be stored in cool and dry place. The product is stable for over a year. Diluted Nisus DSV is also stable but it is always best to mix only what is needed for an application in order to avoid having to label and store a diluted product.

For further information, contact:

Greg Baumann, Vice President, Technical Services and Regulatory Affairs
Reid Ipser, Ph.D., Director of Technical Services
Jamel Sandridge, Ph.D., Innovation Platform Leader