



**FDA**  
APPROVED



# SOLDAGUARD

## DN\*007

The first non-toxic, dry solution, that treats HVAC systems and surfaces without the labor, downtime, or wetness associated with water-based products.

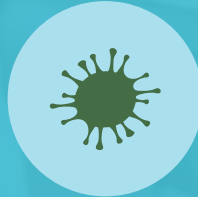
Chemical HS code - 33074900  
Machine HS Code - 842489000000

### FDA REGISTRATION INFORMATION

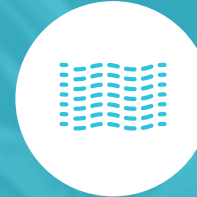
**Soldaguard DN-007**  
**(FDA Medical Device)**  
Reg # 3013756795

**Soldamist DN-420**  
NDC # 77015-420-13

## What makes Soldaguard the #1 system?



Reduces the spread of influenza and 3rd party lab tested against the human coronavirus



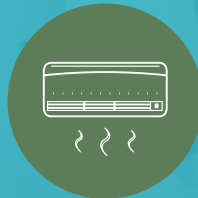
Unique dry fog application penetrates hard to reach areas and requires no wipe down



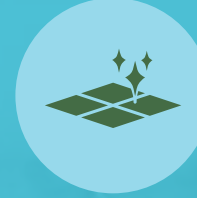
Eliminates odor causing bacteria, mold and fungi



Non-toxic, non-corrosive, safe for people, pets, electronics, and fabrics



Circulates through air conditioning/HVAC systems



Long lasting effectiveness in treated areas



Removes buildup of bacteria colonies



FDA registered and GSA approved



## OUR PRODUCTS

### **Soldaguard DN-007**

Soldaguard DN-007 is our user friendly and carefully designed machine that dispenses Soldamist DN-420 as a dry fog. This allows the product to penetrate the most difficult to reach areas and requires no wipe down.



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### **Soldamist DN-420**

SoldaMist DN-420 consists of natural essential oils that are highly concentrated plant extracts. These are obtained by steam distillation, cold pressing, and extraction of CO<sub>2</sub>, a method of solvent extraction which does not leave any residue or alter the oil's chemical composition. SoldaMist DN-420 inhibits virus development, improves immunity, and fights foreign pathogenic agents.

# FREQUENTLY ASKED QUESTIONS

## ■ What surfaces can you expect to be treated in a given area?

Soldamist DN-420 will expand from floor to ceiling to engulf all items in a particular area. This allows treatment to take place in hard to reach areas and also on surfaces commonly missed during cleaning, such as air ducts, walls, and underneath tables.

## ■ What is the recommended dispersal method?

Whenever possible, it is recommended to use the HVAC system in an area. Soldamist DN-420 can be dispersed directly into the HVAC return. This will allow the ducts to be sanitized as the supply vents disperse Soldamist into the areas needing treatment. If there is no HVAC system, dispersing directly into an area needing treatment is also effective.

## ■ How long does the treatment process take?

Dispersing the solution only takes seconds. The Recommended dwell time is 10 minutes.

## ■ How long does a Soldamist DN-420 treatment last? How often should the treatment be repeated?

A treatment is effective for up to 30 days. It is important to note that this is in a controlled environment and a higher frequency of treatments may be required based on foot traffic. While we cannot guarantee 100% elimination, we are happy to provide recommendations of frequency based on your industry.

## ■ Do I need to prepare the area prior to the treatment?

No, but a clean area is recommended for maximum effectiveness. Normal cleaning should continue to take place to keep surfaces clear and free of debris.

## ■ How do I know if all areas have been treated with SoldaMist DN-420 if there is no residue left behind?

Besides being backed up by third party laboratory testing, ATP testing can be performed before and after a treatment to demonstrate efficacy.

## ■ How does SoldaGuard DN-007/Soldamist DN-420 help with allergies?

Due to Soldamist getting into all the commonly missed areas, including the air system, it is able to attack allergens and organisms that typically go free after a normal cleaning.

## ■ Is Soldamist DN-420 safe around food and pets?

Yes, Soldamist DN-420 is safe around food and pets.

## ■ Is it safe to be in the area during treatment?

Yes, Soldamist DN-420 is safe to be around. There is no need to exit the area during treatment.

## ■ What is the advantage of using Soldaguard DN-007/Soldamist DN-420 versus sprays, aerosols and foams?

Our competitive advantage is through the unique dry application and nonabrasive nature of our products. SoldaMist requires no wipe down and no downtime/intensive labor. It is totally safe, free of wetness, and long lasting. Its ability to circulate through air conditioning systems enables it to get into hard to reach and commonly missed areas.



# SoldaGuard

# Water-Based Products

<b>Oil-based, dry fog application</b>	Water-based, wet application
<b>Runs through HVAC systems</b>	No HVAC application
<b>No wipe down, leaves surfaces dry</b>	Requires wipe down, leaves surface wet
<b>Non-corrosive, non-toxic</b>	Causes corrosion, some toxic
<b>Safe for electronics and fabrics</b>	Unsafe for electronics and may cause fabric discoloration
<b>Minimal labor, user friendly</b>	Time consuming application
<b>Manufacturer of solution</b>	Solution is outsourced
<b>Dry fog expands to reach all surface areas</b>	No expansion leaving some surfaces missed
<b>Machine is a registered FDA approved - medical device</b>	Not registered
<b>75ml of solution covers +/- 15,000 sq ft</b>	6 gallons of solution covers +/- 15,000 sq ft





## FDA REGISTRATION INFORMATION



### **Soldaguard DN-007**

Reg # 3013756795  
Classification name:  
Disinfectant, Medical Devices



### **Soldamist DN-420**

NDC # 77015-420-13  
Product Type Name: OTC Drug

## Safety Data Sheet

**3 VETS LLC****SECTION I – Identification**

<b>Identity (As Used on Label and List)</b> <b>Essential Oil Sanitizing Spray</b>	EPA Reg. No. N/A	<b>Recommended Use:</b> Intended to be used in misting form.
<b>Distributed by:</b> 3 Vets LLC		<b>Emergency Telephone Number:</b> <b>1-800-222-1222</b>
<b>Address (Number, Street, City, State, and ZIP Code)</b> 648 N Tustin St, Suite B, Orange, CA 92867		<b>Telephone Number for Information:</b> <b>1-657-346-7773</b>

**Formula No.: DP400-184J(3A)****SECTION II – Hazard Identification****NFPA Hazard Rating: Health: 1 Flammability: 0 Reactivity: 0 Special: N/A****Health Hazards (Acute and Chronic)** – This product is not classified as hazardous under the OSHA HazCom 2012 standard.**Caution:**

Not generally considered a hazard.



<b>Route(s) of Entry</b>	<b>Eyes?</b> Yes	<b>Inhalation?</b> No	<b>Skin?</b> Yes	<b>Ingestion?</b> Yes
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**Signs and Symptoms of Exposure –****Eyes:** May cause irritation and stinging or burning.**Inhalation:** May cause respiratory irritation in sensitive individuals.**Skin:** Irritation or redness may occur in sensitive individuals.**Ingestion:** Not a likely route of entry. If swallowed may cause gastrointestinal discomfort.**Medical Conditions Generally Aggravated by Exposure -**

Not determined

**SECTION III - Composition/Information on Ingredients**

<b>Specific Ingredient Identity</b> <b>Common Name(s)</b>	<b>CAS No.</b>	<b>OSHA PEL</b>	<b>ACGIH-TLV</b>	<b>Specific Hazards</b>	<b>Other Limits Recommended</b>	<b>% (Opt.)</b>
Deionized Water	7732-18-5	N/A	N/A	Not Hazardous	N/A	---
Glycerin	56-81-5	N/A	N/A	Not Hazardous	N/A	---
Polysorbate 80	9005-64-5	N/A	N/A	Not Hazardous	N/A	---
Sorbitan Oleate Decylglucoside Crosspolymer	1443994-56-6	N/A	N/A	Not Hazardous	N/A	---
Melaleuca Alternifolia (Tea Tree) Leaf Oil	68647-73-4	N/A	N/A	Not Hazardous	N/A	---
Rosmarinus Officinalis (Rosemary) Leaf Oil	8000-25-7	N/A	N/A	Not Hazardous	N/A	---
Eucalyptus Globulus Leaf Oil	8000-48-4	N/A	N/A	Not Hazardous	N/A	---
Litsea Cubeba Oil	68855-99-2	N/A	N/A	Not Hazardous	N/A	---
Thymus Vulgaris (Thyme) Flower/Leaf Oil	8007-46-3	N/A	N/A	Not Hazardous	N/A	---
Benzalkonium Chloride	85409-22-9	N/A	N/A	Not Hazardous	N/A	---

## Safety Data Sheet

Phenoxyethanol	122-99-6	N/A	N/A	Not Hazardous	N/A	---
Dipropylene Glycol	25265-71-8	N/A	N/A	Not Hazardous	N/A	---
Ethyl Alcohol	64-17-5	N/A	N/A	Not Hazardous	N/A	---

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

### SECTION IV – First Aid Measures

#### Emergency and First Aid Procedures:

**Eyes** –Rinse eyes with plenty of water. If irritation develops, call a physician. **Skin** –Rinse skin with plenty of water. If irritation develops, call a physician. **Inhalation** – Move person to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Ingestion** – Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and have patient drink several glasses of water. Call a physician.

### SECTION V – Fire-Fighting Measures

<b>Flash Point (Method Used)</b> Not Applicable	<b>Flammable Limits</b> No Data	<b>LEL</b> No Data	<b>UEL</b> No Data
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#### Extinguishing Media -

Not known to support combustion. All recognized methods acceptable.

**Special Fire Fighting Procedures** - Keep containers cool and vapors down with water spray. Prevent runoff from entering sewers and public waterways. Wear SCBA in chemical fires.

#### Unusual Fire and Explosion Hazards -

Not known to support combustion.

### SECTION VI – Accidental Release Measures

#### Steps to be Taken in Case Material is Released or Spilled -

Caution, slip hazard. Wipe up small spills with an absorbent material. For large spills, pick up with a vacuum or an absorbent material. Place waste in appropriate container for disposal.

**Waste Disposal Method** - Consult local, state, and federal regulations. Do not reuse empty container.

### SECTION VII – Handling and Storage

**Precautions to be Taken in Handling**– Avoid eye contact. Should such contact occur, wash exposed area promptly. Use with adequate ventilation. Store in cool dry location away from heat, sparks and open flames. Do not use around ignition sources such as heat, sparks, flame, etc. Do not smoke while using.

**Storage Temperatures:** Store in cool dry place that is well ventilated.

**Other Precautions** - Follow label directions carefully. Keep out of reach of children. Keep container tightly sealed when not in use. Do not contaminate water, food or feed by use or storage. Do not swallow. Avoid inhaling mist and vapors. This product is not Pregnancy Safe.

### SECTION VIII – Exposure Controls/ Personal Protection

**Respiratory Protection (Specify Type)** - Not usually necessary. Use with adequate ventilation. Use NIOSH/MSHA approved respirator if PELs or TLVs are exceeded.

<b>Ventilation</b>	<b>Local Exhaust</b>	Not usually needed	<b>Special</b>	None
	<b>Mechanical (General)</b>	Yes	<b>Other</b>	None

**Protective Gloves** -  
Rubber or Neoprene

**Eye Protection** -  
Wear safety glasses for splash protection.

**Other Protective Clothing or Equipment** -  
Not usually necessary. Avoid direct contact.

#### Work/Hygienic Practices -

Normal. Wash hands after use and before eating, drinking, smoking, using restrooms, etc.

### SECTION IX – Physical and Chemical Properties

<b>Boiling Point</b>	ND	<b>Specific Gravity (H<sub>2</sub>O = 1) @ 25°C</b>	1.038 – 1.269
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## Safety Data Sheet

Vapor Pressure (mm-Hg @ 70° F)	ND	Melting Point	ND
Vapor Density (AIR = 1)	ND	Evaporation Rate (Butyl Acetate = 1)	ND
Solubility in Water	Soluble	pH @ 25°C	6.00 – 7.00

**Appearance and Odor** – Yellow Clear Flowable Liquid. Herbal: Citrus/Eucalyptus/Thyme.

### SECTION X – Stability and Reactivity

<b>Stability</b>	<b>Unstable</b>		
	<b>Stable</b>	<b>X</b>	<b>Conditions to Avoid</b> - Heat, sparks, open flames.

**Incompatibility (Materials to Avoid)** -

None known

**Hazardous Decomposition or Byproducts** -

None known

<b>Hazardous Polymerization</b>	<b>May Occur</b>		
	<b>Will Not Occur</b>	<b>X</b>	<b>Conditions to Avoid</b> - None known

### SECTION XI – Toxicological Information

<b>Carcinogenicity:</b> No Data Available.	<b>NTP?</b> No	<b>IARC Monographs?</b> No	<b>OSHA Regulated?</b> No
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### SECTION XII – Ecological Information

No Data Available.

### SECTION XIII – Disposal Considerations

Dispose of in-accordance with local, State and Federal regulations.

### SECTION XIV – Transport Information

This material is not subject to transportation regulations for any known freight.

Finished packaged product transported by ground (DOT):	<b>Hazard Class:</b> Non-Hazardous <b>UN Number:</b> Not a regulated hazardous material <b>Packaging group:</b> Not Applicable	Proper Shipping Name:	N/A
Finished packaged product transported by vessel (IMDG):	<b>IMDG Class:</b> Not Applicable <b>UN Number:</b> Not a regulated hazardous material <b>Label:</b> Not Applicable <b>Packaging group:</b> Not Applicable <b>EMS Number:</b> N/A <b>Marine Pollutant:</b> N/A	Proper Shipping Name:	N/A
Finished packaged product transported by air (ICAO-TI and IATA-DGR):	<b>ICAO/IATA Class:</b> Not Applicable <b>UN/ID Number:</b> Not a regulated hazardous material <b>Label:</b> Not Applicable <b>Packaging group:</b> Not Applicable	Proper Shipping Name:	N/A

### SECTION XV – Regulatory Information

No Data Available.

### SECTION XVI – Other Information

**Safety Data Sheet**

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Date Created 06/08/2020

**Prepared & Approved By:** **Jacqueline Quintero**  
**Document Control Specialist**

**Company Policy or Disclaimer**

The information and data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The user assumes all liability for any damages or injury that result from abnormal use, any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

**NO INFORMATION BEYOND THIS POINT**

**Sample:** M2005180076

**Time Kill Study**

<b>Organism</b>	<b>Exposure Intervals</b>	<b>% Reduction</b>
Escherichia coli	30 seconds	100
	1 minute	100
	2 minutes	100
	5 minutes	100
	10 minutes	100
Staphylococcus aureus	30 seconds	78.387
	1 minute	87.742
	2 minutes	94.839
	5 minutes	99.226
	10 minutes	99.974
Pseudomonas aeruginosa	30 seconds	99.996
	1 minute	99.999
	2 minutes	100
	5 minutes	100
	10 minutes	100
Salmonella typhimurium	30 seconds	98.434
	1 minute	99.703
	2 minutes	99.970
	5 minutes	99.998
	10 minutes	100
Candida albicans	30 seconds	99.967
	1 minute	99.994
	2 minutes	99.999
	5 minutes	100
	10 minutes	100
Aspergillus brasiliensis	30 seconds	1.695
	1 minute	18.644
	2 minutes	22.034
	5 minutes	28.814
	10 minutes	28.814

3 Vets LLC  
Mahmoud Assaf  
648 North Tustin St Suite B  
Orange, CA 92867  
Phone: 657-346-7773  
Email: info@the3vets.com

Receiving Date: 5/18/2020  
CoA Date: 5/26/2020

**Certificate of Analysis**

Sample Name: SOLDAMIST DN-420  
Lot Number: DP400-184J(3A)  
Sample Description: clear gel. plastic container BULK  
Rush:  
PO: N/A

ANALYSIS	SPEC	RESULTS	METHOD
Time Kill Study 6 organism/5pt			()
E.coli		See Attached	Microbiological (ASTM)
Salmonella		See Attached	Microbiological (ASTM)
Pseudomonas aeruginosa		See Attached	Microbiological (ASTM)
Staph aureus		See Attached	Microbiological (ASTM)
Candida albicans		See Attached	Microbiological (ASTM)
Aspergillus brasiliensis		See Attached	Microbiological (ASTM)

Approved by:



Peter VanCouvering  
General Manager



## NON-GLP STUDY REPORT

### STUDY TITLE

Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

**Virus: Human Coronavirus**

### PRODUCT IDENTITY

SoldaMist DN-420  
Lot# 06032020

### TRF NUMBER

3VE001071420.COR

### AUTHOR

Thomas Breyen, B.S.  
Virologist

### STUDY COMPLETION DATE

November 3, 2020

### PERFORMING LABORATORY

Analytical Lab Group-Midwest  
1285 Corporate Center Drive, Suite 110  
Eagan, MN 55121

### SPONSOR

3 Vets LLC  
648 N Tustin St. Suite B  
Orange, CA 92867

### PROJECT NUMBER

A30742-2

This study was not performed under  
EPA Good Laboratory Practice Regulations  
(40 CFR Part 160)

Page 1 of 5



## STUDY REPORT

### GENERAL STUDY INFORMATION

**Study Title:** Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces

**Project Number:** A30742-2

**TRF Number:** 3VE001071420.COR

### TEST SUBSTANCE IDENTITY

**Test Substance Name:** SoldaMist DN-420

**Lot/Batch(s):** Lot# 06032020

### STUDY DATES

**Date Sample Received:** July 20, 2020

**Study Initiation Date:** September 11, 2020

**Experimental Start Date:** October 22, 2020

**Experimental End Date:** November 2, 2020

**Study Completion Date:** November 3, 2020

### TEST PARAMETERS

**Dilution:** Ready to use (RTU)

**Virus:** Human Coronavirus, ATCC VR-740, Strain 229E

**Exposure Time:** 10 minutes

**Exposure Temperature:** Room temperature (20.0°C)

**Exposure Humidity:** 50%

**Organic Soil Load:** 5% fetal bovine serum

**Test Medium:** Minimum Essential Medium (MEM) supplemented with 2% (v/v) heat-inactivated fetal bovine serum, 100 units/mL penicillin, 10 µg/mL gentamicin, and 2.5 µg/mL amphotericin B.

**Indicator Cell Cultures:** WI-38 (human lung) cells



## **EXPERIMENTAL DESIGN**

A film of virus, dried on a glass surface, was exposed to a 2.00 mL aliquot of the test substance for the 10 minute Sponsor specified exposure time at room temperature (20.0°C) and 50% relative humidity. Following the exposure time, the virucidal and cytotoxic activities were removed from the virus-test substance mixtures utilizing a Sephadex gel column, and the mixtures were assayed for viral infectivity by an accepted assay method. To further reduce the toxicity of the test substance to the indicator cell cultures, the 10<sup>-2</sup> dilutions of each test and virus control parameter were passed through individual previously prepared Sephadex columns following titration. Appropriate virus, test substance cytotoxicity, and neutralization controls were run concurrently. Per Sponsor's direction, the study was not required to be conducted under US EPA 40 CFR Part 160 or US FDA 21 CFR Part 58.

## **CONCLUSION**

**Under the conditions of this investigation and in the presence of a 5% fetal bovine serum organic soil load, SoldaMist DN-420 (Lot# 06032020), ready to use, demonstrated a  $\geq 3 \log_{10}$  reduction in titer of Human Coronavirus following a 10 minute exposure time at room temperature (20.0°C) and 50% relative humidity. Taking the cytotoxicity and neutralization control results into consideration, a  $\geq 3.00 \log_{10}$  reduction in viral titer was demonstrated.**

In the opinion of the Author, there were no circumstances that may have affected the quality or integrity of the data.



**STUDY RESULTS**

**TABLE 1: Effects of SoldaMist DN-420 Following a 10 Minute Exposure to Human Coronavirus Dried on an Inanimate Surface**

Dilution	Input Virus Control	Dried Virus Control	Human Coronavirus + Lot# 06032020
Cell Control	0 0	0 0 0 0	0 0 0 0
10 <sup>-1</sup>	++	++++	TTTT
10 <sup>-2</sup>	++	++++	0000
10 <sup>-3</sup>	++	++++	0000
10 <sup>-4</sup>	++	++++	0000
10 <sup>-5</sup>	+ 0	0 0 0 0	0 0 0 0
10 <sup>-6</sup>	0 0	0 0 0 0	0 0 0 0
10 <sup>-7</sup>	0 0	NT	NT
TCID <sub>50</sub> /100 µL	10 <sup>5.00</sup>	10 <sup>4.50</sup>	≤10 <sup>1.50</sup>
TCID <sub>50</sub> /carrier	NA	10 <sup>4.80</sup>	≤10 <sup>1.80</sup>

- (+) = Positive for the presence of test virus
- (0) = No test virus recovered and/or no cytotoxicity present
- (T) = Cytotoxicity present
- (NA) = Not applicable
- (NT) = Not tested





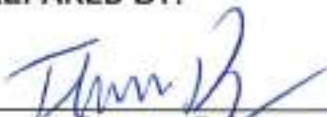
**TABLE 2: Cytotoxicity Control and Neutralization Control**

Dilution	Cytotoxicity Control Lot# 06032020	Neutralization Control Lot# 06032020
Cell Control	0 0 0 0	0 0 0 0
10 <sup>-1</sup>	T T T T	T T T T
10 <sup>-2</sup>	0 0 0 0	+ + + +
10 <sup>-3</sup>	0 0 0 0	+ + + +
10 <sup>-4</sup>	0 0 0 0	+ + + +
10 <sup>-5</sup>	0 0 0 0	+ + + +
10 <sup>-6</sup>	0 0 0 0	+ + + +
TCID <sub>50</sub> /100 µL	10 <sup>1.50</sup>	See below

(+) = Positive for the presence of test virus  
(0) = No test virus recovered and/or no cytotoxicity present  
(T) = Cytotoxicity present

Results of the non-virucidal level control indicate that the test substance was neutralized at a TCID<sub>50</sub>/100 µL of  $\leq 1.50 \log_{10}$ .

**PREPARED BY:**

  
Thomas Breyen, B.S.  
Virologist

11/3/2020  
Date

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Accuratus Lab Services

**Scanning Verification Form**Original Document Name: A30742-1

Document Type:

- Final Report
- Draft Report
- Raw Data
- Test Substance Documents
- QA Documents
- Certificate(s) of Analysis
- Amended Report
- Complete Study File
- Unaudited Raw Data
- Other

New Electronic File Name: A30742-1-final report

I have verified the document listed above is complete and a TRUE and EXACT copy of the original paper copy.

Signature/Date: C. Miller 10-6-2020



## What industries can benefit from SoldaGuard DN-007/SoldaMist DN-420?

- Hospitals
- Supermarkets
- Care Homes
- Education (Schools, Colleges, Universities, Nurseries)
- Public Transportation
- Offices
- Homes
- Aviation
- Automotive
- Industrial
- Medical
- Fitness and Well-being
- Food and Beverage
- Shopping and Retail
- Hospitality
- Entertainment and Recreation

### IN GOOD COMPANY

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