PRODUCT UPDATE: PROTECTIVE EFFICACY

SYNOPSIS

JustGone® Surface Protectant has been working closely with a fully accredited, **EPA**-Registered, **AOAC**-Approved, **ISO**-Certified and **ANSI**-Certified laboratory, which is widely respected in the testing of microbiological presence/absence for product research and development. We have asked them to assist us in a comprehensive assessment of our new products:

BACKGROUND

JustGone® Surface Protectant employs a natural bio-polymer called Chitosan. Chitosan is a substance extracted and refined from the exoskeletons of crustaceans in this case, snow crabs. Chitosan has been fully reviewed, in use in numerous industries and approved by the:

- **FDA** - Approved for both skin contact and inclusion in prepared foods
- **USDA** - Approve for application to roots, plant foliage, soil and harvested fruits and vegetables
- **GRAS** - It has achieved the coveted title of being "Generally Regarded As Safe"
- **EPA** - Exempt from FIFRA Registration due to its lack of human toxicity, coupled with its known antimicrobial properties.

Our **JustGone® Surface Protectant** product has been carefully prepared with a blend of **specially CLO2** purified water and other natural ingredients to create a new generation in protective coatings. **JustGone® Surface Protectant** contains no synthetic substances, creates a natural and sustainable crystal-clear, microscopic polymeric film that has superior advantages over other antimicrobials:

- Contains no heavy metals as do those which contain nano-silver
- Is non-leaching as do those that contain QAC ingredients
- Does not create a 3-dimensional field which may inhibit proper cleaning or be destroyed with friction.
- Is perfectly suitable for use on glass and all soft or hard surfaces
- Requires no unreasonable PPE's

We had read all of the academic studies and scholarly articles, but we wanted to know EXACTLY how good our product was.

TEST NUMBER 1 - LIMITED TIME TEST OF BROAD EFFICACY

In this first test, we studied the microbial efficacy of **JustGone® Surface Protectant** against three distinct classes of pathogens, seeking to establish the breadth of its efficacy. The three microbes selected were: Bacillus subtilis (a gram-positive bacteria), Aspergillus niger (black mold), and Candida albicans (yeast spore). The test was conducted on numerous carriers of a singular substrate over just 7 days, with readings at Time Zero (directly after inoculation), 3, 6, 24, 48 hours, and at the conclusion of the 7 days.

Step 1 → The surfaces of 3 carriers were pretreated with **JustGone® Surface Protectant**.
Step 2 → 6 carriers were inoculated with the test organisms so as to create 3 positive control carriers.
Step 3 → Positive and Negative (uncoated, no organism) Control carriers were set aside in a secure location
Step 4 → The results were collected and reported as follows:

OGANISM (ATCC)	INITIAL INOCULUM	TIME ZERO	REDUCTION ACHIEVED	3 HOURS	6 HOURS	24 HOURS	48 HOURS	7 DAYS	REDUCTION ACHIEVED
B. subtilis (6633)	1.14×10^5	10	100.00%	<10	<10	<10	<10	<10	100.00%
A. niger (16404)	4.80×10^6	200	99.96%	210	70	120	10	<10	100.00%
C. albicans (10231)	2.00×10^6	1000	99.95%	12500	2500	210	190	10	99.95%

Conclusion **JustGone® Surface Protectant** was proven to be:

- Immediate effective against a gram-positive bacteria.
- Effective within 48 hours against black mold, and
- Ultimately fully effective against the C. albicans yeast spores.

TEST NUMBER 2 - FOUR SUBSTRATES @ 30 DAYS

In the second study, we selected a single pathogen, Staphylococcus aureus (ATCC 6538), a common and troublesome pathogenic organism and treated three hard surfaces (plastic, laminate, stainless steel) and one soft surface (cotton) over a 30 day period. We then challenged the coated surface with a weekly cleaning routine, using rayon wipes and chlorine dioxide disinfecting solution. We had exceeded our goal of maintaining a 3-Log reduction (99.9%).

Preparation of substrates: Each of the multiple test carriers were coated with **JustGone® Surface Protectant** only once at the beginning of the analysis, allowed to dry for 1 hour and then inoculated with the test pathogen. Four times during the study, the substrate was cleaned with JustGone® Quick Cloths hydrated in a 50 ppm aqueous solution to determine if the single application of **JustGone® Surface Protectant** could withstand repeated contact with the chemical and mechanical action of cleaning. Each time after cleaning, the surface was reinoculated with the pathogen, and sampling resumed.

Below are the results: **JustGone® Surface Protectant**

TEXTILE	INITIAL INOCULUM	7 DAYS	1ST REINOCULATION	14 DAYS	2ST REINOCULATION	21 DAYS	3ST REINOCULATION	30 DAYS	REDUCTION SUSTAINED
Plastic	1.78×10^5	0.00	1.25×10^7	0.00	1.18×10^6	0.00	1.25×10^6	0.00	**99.99%**
Laminate	1.78×10^5	0.00	1.25×10^7	0.00	1.18×10^6	0.00	1.25×10^6	0.00	**99.99%**
Stainless Steel	1.78×10^5	0.00	1.25×10^7	0.00	1.18×10^6	0.00	1.25×10^6	0.00	**99.99%**
Cotton	1.78×10^5	0.00	1.25×10^7	0.00	1.18×10^6	0.00	1.25×10^6	0.00	**99.99%**

Conclusion **JustGone® Surface Protectant** was proven to:

- Continuously execute its biostatic antimicrobial power over Staphylococcus aureus.
- Hold up against periodic cleaning with JustGone® Quick Cloths.
- Maintain efficacy well beyond target.

SKIN TEST SUMMARY

Employing a combination of AOAC [Method 960.09] and USP [Method 51:Antimicrobial Effectiveness], our **JustGone® Hand & Skin Sanitizer** was challenged over 24 hours by Staphylococcus a. [ATCC 6538]. A sanitized sample of porcine skin was treated with **JustGone® Hand & Skin Sanitizer**, allowed to dry, and was inoculated with the bacteria. The results were as follows:

- At 4 hours, the initial bacterial contamination had been reduced by 99.957%
- At 6 hours, the initial bacterial contamination held a reduction of 99.956%
- At 24 hours, the initial bacterial contamination still demonstrated a reduction of 99.89%.

Conclusion: JustGone® Hand & Skin Sanitizer can effectively defend your hands against bacterial contamination.

For more information on JustGone® Surface Protectant and JustGone® Hand & Skin Sanitizer, please visit our website, ***www.justgone.systems*** or ***www.clo2.network***.