



**NANOLAVA™**  
rinseless hand wash



**NANOBLASTER PRO™**  
nano-charged all purpose cleaner



**NANOMKP™**  
mold killer pro



**NANOLAVA™**  
fruit & vegetable wash



**NANOLAVA™**  
laundry detergent

100%

All-Natural Non-Toxic  
Biodegradable Hypoallergenic  
Non-Flammable Non-Hazardous

**KILLS 99.9% Bacteria, Germs, Viruses,  
Pathogens, Fungus, Mold & Mildew**



[www.nanolava.com](http://www.nanolava.com)

**NANOLAVA™**  
the future of cleaning green!

**NANOLAVA™ RINSELESS NANO-CHARGED  
HAND WASH**  
SIZES: 2 Oz., 8 Oz. & 128 Oz.

**NANOBLASTER PRO™ RINSELESS  
NANO CHARGED ALL PURPOSE CLEANER**  
SIZES: 34 Oz., & 128 Oz.

**NANOLAVA™ NANO-CHARGED  
LAUNDRY DETERGENT**  
SIZES: 128 Oz.

**NANOLAVA™ FRUIT & VEGETABLE WASH**  
SIZES: 16 Oz.

**NANOMKP™ "MOLD KILLER PRO"**  
SIZES: 34 Oz., & 128 Oz.



**NANOLAVA™**



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the future of cleaning green!



## The Dilemma in Cleaning and Decontamination Industry

1. Most conventional cleaners are TOXIC and NOT Biodegradable.
2. Many “Green” cleaners are organic and biodegradable but TOXIC (not human friendly).
3. Some “Green” cleaners are non-toxic but also NOT effective.
4. Most cleaners have single or limited applications.
5. Most cleaners require TOXIC chemicals to neutralize or kill Coronavirus.





Products of Biomolecular Nanotechnology.

# NANOLAVA™ Products of Biomolecular Nanotechnology.

No other cleaners available on the market have the combined unique characteristics contained in **NANOLAVA™** products. All are **non-toxic, biodegradable**, highly effective surfactants that are safe for both land and marine environment. They can be used freely without fear of contamination or toxic impact on soil or water.

Industrial, Manufacturing and Mechanical facilities often utilize chemicals that pose both long- and short-term health risks to their employees. The use of toxic cleaners and degreasers in Industrial settings pose an inherent risk to the very people they are intending to assist.

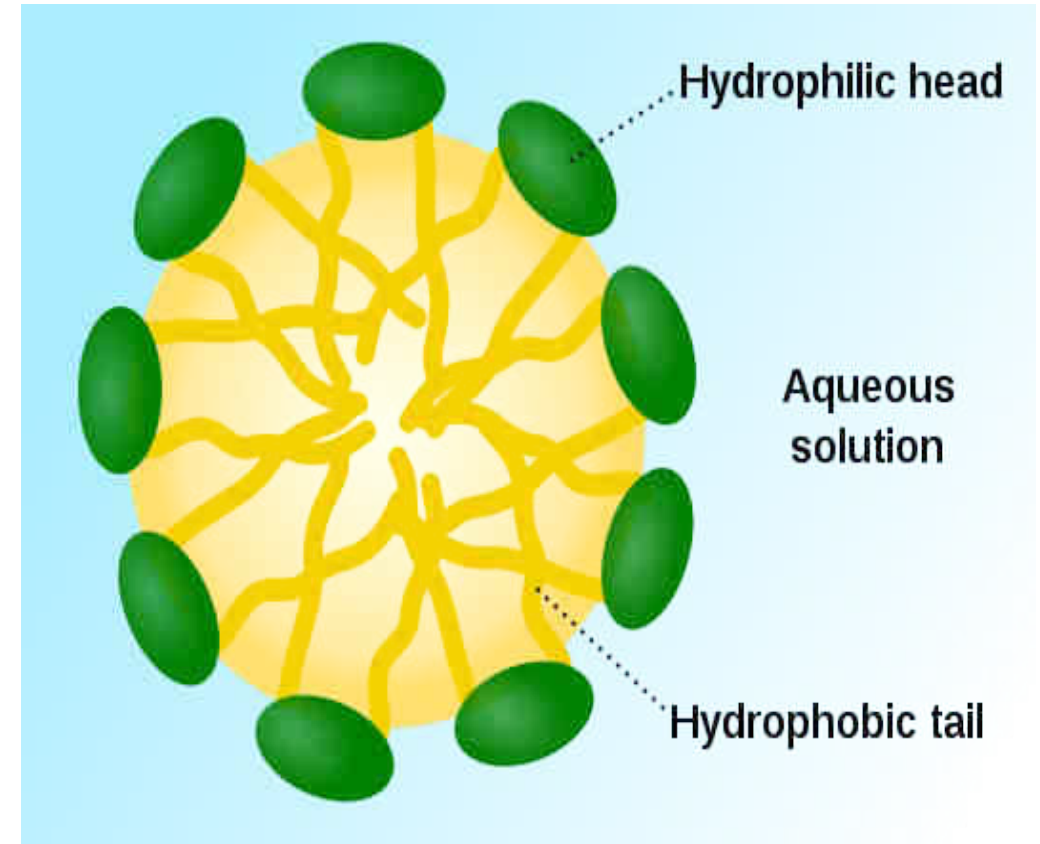
Research shows that low-level exposure of chlorine bleach produces measurable unhealthy effects, and that long-term, low-level exposures can cause cumulative physical damage. Exposure doesn't have to be substantial to create adverse health effects. Choosing the least toxic product to begin with is the first step toward prevention of possible short-term harm and almost certain long-term risk. Exposure of toxic chemicals can result in health problems such as asthma, liver or kidney damage and even cancer.

**NANOLAVA™** products are eco-friendly, competitively priced, yielding superior results.

# NANOLAVA™ Products of Biomolecular Nanotechnology.

**Nano-technology** creates extremely small particles made from natural plant oils, plants oils and extractions. By creating a colloidal micelle, the characteristics are changed so that the tiny spherical particles are both hydrophobic and hydrophilic chemical properties. They form mild solutions that dissolve heavy grease, oil and other hydrocarbons. The dissolved oil becomes biodegradable and breaks down into nitrate, dissolved oxygen, carbon dioxide and water.

This powerful, totally non--toxic surfactant is a unique combination of natural ingredients formulated using a proprietary process. Our proprietary and unique formula results in a specialized chemical reaction that produces super surface--active *amphiphilic* molecules (can mix with both oil and water). These molecules have a water--attractive (hydrophilic) head and an oil--attractive (hydrophobic) tail.



# NANOLAVA™ Products of Biomolecular Nanotechnology.

They appear structurally similar to conventional soap, detergent and surfactant molecules but are many times smaller than them. Prior to actual application they form micellar nanoparticles with the heads outside and tails inside. These nanoparticles form mild solutions that dissolve heavy grease, oil and other hydrocarbons.

The dissolved oil becomes biodegradable and breaks down into nitrate, dissolved oxygen, carbon dioxide and water.

Because of their extremely small size they work much more effectively and efficiently than conventional soaps, detergents and surfactants. The average diameter of has been measured to be approximately **4 nanometers**.

The micelle size of **NANOLAVA™** surfactants was obtained by Dynamic Light Scattering (DLS) Technique. DLS measurements were performed on a Proton Correlation Spectrometer with a BI9000 AT Digital Correlator (Brookhaven Instruments) equipped with a Compass 315M---150 Laser (Coherent Technologies), which provides a green light source ( $\lambda=532\text{nm}$ ).

# NANOLAVA™ Products of Biomolecular Nanotechnology.

Data obtained from DLS can be interpreted in different ways using different mathematic models. The figure below, which uses a Cumulant model, is the easiest and most common interpretation of the measurement.

	Gamma ( $s^{-1}$ )	Diff. Coef. ( $cm^2 s^{-1}$ )	Eff. Diam. (nm)	Poly	Skew	Kurtosis
Linear:	4.808e+04	9.685e-07	5.1			
Quadratic:	6.063e+04	1.221e-06	4.0	0.187		
Cubic:	6.573e+04	1.324e-06	3.7	0.323	0.30	
Quartic:	6.957e+04	1.401e-06	3.5	0.453	0.62	3.20



# NANOLAVA™ Products of Biomolecular Nanotechnology.

Gamma is the average decay rate, and Diff. Coef. is the Diffusion Coefficient.

Both of these values characterize the moving speed of the micelles in solution, i.e., Brownian movement or thermal diffusion.

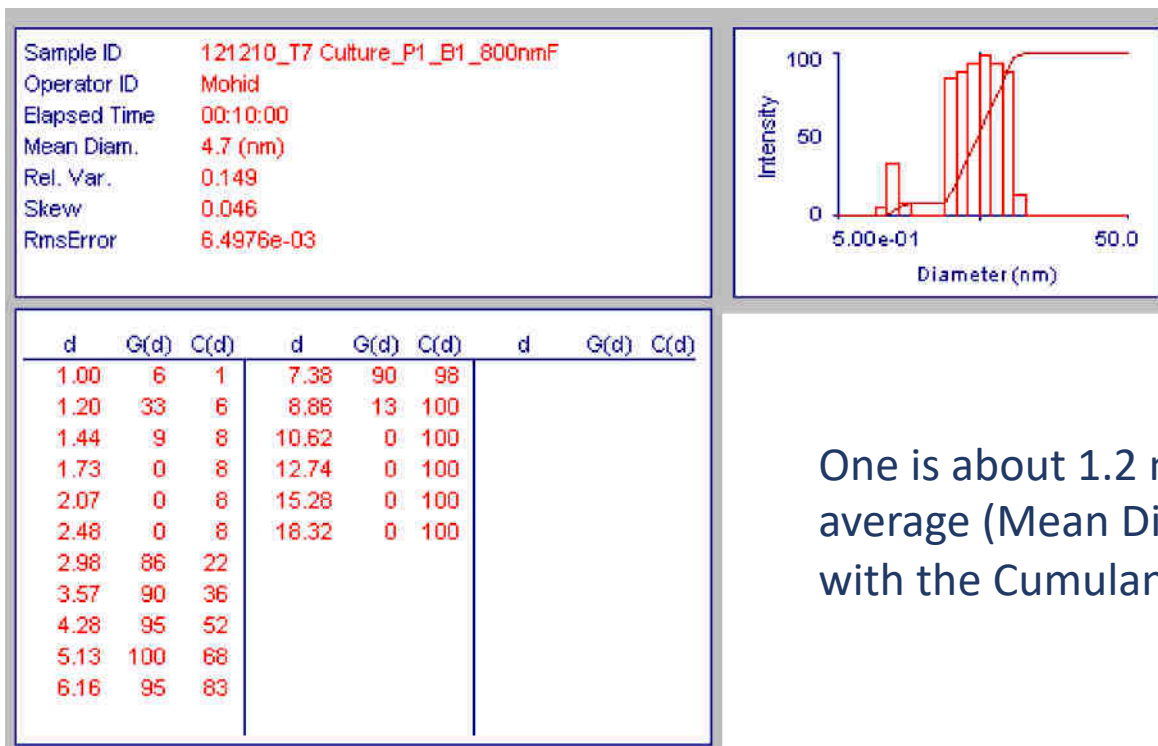
The larger the micelle, the lower the diffusion coefficient. The micelle size can be solved from the Cumulant model with four different orders of approximation.

Each order provides a slightly different micelle size (Eff. Diam) in nanometer (nm) units, which is the DIAMETER of the micelles.

Since the quadratic (4.0) or cubic (3.7) results are typically used, that result indicates that the **NANOLAVA™** products micelles are approximately 4 nm with polydispersity (Poly) index of about 0.2 to 0.3.

# NANOLAVA™ Products of Biomolecular Nanotechnology.

The following two figures are different interpretation of the measurement with more complicated models. CONTIN mode (below) is better when there is a polydispersed system.

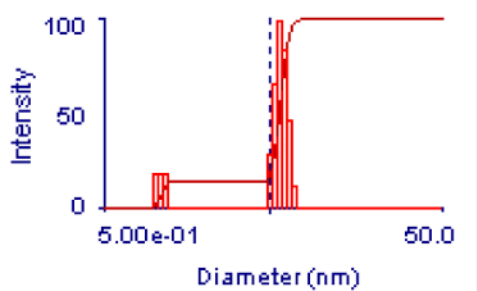


This chart indicates that **NANOLAVA™** surfactants micelles have two populations:

One is about 1.2 nm and the other one is around 5nm, so the overall average (Mean Diam.) size from this model is 4.7 nm, which agrees well with the Cumulant result when polydispersity is considered.

# NANOLAVA™ Products of Biomolecular Nanotechnology.

Sample ID 121210\_T7 Culture\_P1\_B1\_800nmF  
 Operator ID Mohid  
 Elapsed Time 00:10:00  
 Mean Diam. 4.9 (nm)  
 Rel. Var. 0.110  
 Skew -1.741  
 RmsError 6.1083e-03



NNLS is another model to interpret the measurement, which gives a quite close value of 4.9nm.

d	G(d)	C(d)	d	G(d)	C(d)	d	G(d)	C(d)
1.00	19	5	2.04	0	14	4.15	0	14
1.07	19	10	2.17	0	14	4.43	0	14
1.14	19	14	2.32	0	14	4.73	30	22
1.21	0	14	2.48	0	14	5.05	66	39
1.30	0	14	2.64	0	14	5.38	100	64
1.38	0	14	2.82	0	14	5.74	85	85
1.47	0	14	3.01	0	14	6.13	47	97
1.57	0	14	3.21	0	14	6.54	13	100
1.68	0	14	3.42	0	14	6.97	0	100
1.79	0	14	3.65	0	14	7.44	0	100
1.91	0	14	3.89	0	14	7.94	0	100

It is important to note that all these results represent an average of statistical results, so the approximate level of 4f 5 nm in all these results are sufficiently valid for all practical purposes.

# NANOLAVA™ Products of Biomolecular Nanotechnology.

A 4-nanometer diameter micelle has resulted in an unsurpassed level of dispersion and biodegradability of nonpolar hydrocarbon molecules in water due to its powerful *super surface activity*.

Compared to conventional surfactants, **NANOLAVA™** products have significantly higher surface activity due to their unique natural enzymes. When **NANOLAVA™** Cleaner is applied to grease and oil contaminants, its micellar nanoparticles automatically dissociate. The tails immediately attract oil/grease molecules and leave the water attractive head outside. The heads bond with and are completely surrounded by water molecules.

When flushed with water, the trapped oil and grease molecules are completely dissolved and removed as a biodegradable residue. Due to their submicroscopic size, oil and grease particles are broken down into particles much smaller and dispersible than with other surfactants and thus are much more readily biodegradable under natural conditions.



# NANOLAVA™ micellar nanoparticles:

1

Accelerate the decomposition process of organic compounds (biodegradability).

2

Have hundreds of applications across multiple and diverse industries.

3

Penetrate and rupture cell walls of bacteria, viruses and mold spores (e.g. E. coli and Salmonella bacteria).

## **NANOLAVA™ INGREDIENTS:**

All-Natural ingredients including: Water, Organic Alcohol and Oils, Botanic Enzymes and Minerals; Biobased Fatty Acids\* & Sodium Bicarbonate.

## How safe are NANOLAVA™ products?

**NANOLAVA™** products are made with natural, organic and biobased\* ingredients (\*as certified by the USDA BioPreferred Program)

**NANOLAVA™** products contain NO: Chlorine; Ammonia; VOCs; SVOCs; POMs; Biocides; Pyrethroids; NPEs; PCBs; PAHs; Organophosphates; Phthalates. They are as safe as drinkable water!

**NANOLAVA™** products ingredients meet criteria for the US EPA Design for the Environment Program (DfE)/Safer Detergents Stewardship Initiative (SDSI).

None of our products ingredients appear on the California Proposition 65 or Canadian CEPA-DSL lists.

Absolutely nontoxic and harmless to humans and animals, 10 times safer to aquatic life than conventional detergents.

Allergic and chemically sensitive people can use our products with complete confidence and safety.



## What makes NANOLAVA™ the Greenest products on the planet?\*

1. Sourced from 100% all-natural plant derived, sustainable raw ingredients. **NANOLAVA™** products are a proprietary, Nano-technology/Colloidal Micelle Soap Formula made from Natural ingredients including: Water, Organic Alcohol and Oils, Botanic Enzymes and Minerals; & Biobased Fatty Acids\*; Sodium Bicarbonate.
2. **NANOLAVA™** products are Eco-friendly, biodegradable, easy to use and safe cleaning solutions that will not harm the environment, humans, animals or plants.
3. Energy and resource-efficient manufacturing process with low environmental impact. Resource-efficient concentrate form, diluted with water to desired strength.
4. **NANOLAVA™** formulas replace nearly all other cleaning, sanitizing and disinfection products.
5. Decontaminates toxic chemicals and kills germs., viruses, bacteria, pathogens, fungus, mold & mildew.
6. Runoff wastewater helps decontaminate drains, sewers and waterways.



	Conventional Cleaners	Eco-Friendly “Green” Cleaners	<b>NANOLAVA™</b>  <b>Products</b>
<b>100% Non-Toxic</b>	NO	Sometimes	<b>YES</b>
<b>Readily Biodegradable</b>	NO	YES	<b>YES</b>
<b>Industrial Strength</b>	YES	NO	<b>YES</b>
<b>Rinseless</b>	NO	NO	<b>YES</b>
<b>Multi-Purpose</b>	Sometimes	Sometimes	<b>YES</b>
<b>Cost Effective</b>	Sometimes	Sometimes	<b>YES</b>





2 Oz. SPRAY



8 Oz. FOAM



128 Oz. REFILL



**NANOLAVA™**  
rinseloss nano charged  
hand wash



[www.nanolava.com](http://www.nanolava.com)

the future of cleaning green!

**WASH YOUR HANDS ANYTIME, ANYWHERE WITHOUT WATER!**

*CDC recommends Soap as the best way to clean and sanitize your hands.*

**NANOLAVA™ RINSELESS NANO CHARGED HAND WASH** is no ordinary hand soap, it's a super soap, and is by far the best protection for your hands, killing 99.9% of all Germs, Bacteria, Diseases, and Viruses, including the Coronavirus.

Sanitizers do not clean greasy or soiled hands; but **NANOLAVA™** does!

Proven Results show that **NANOLAVA™** is significantly more effective than alcohol based sanitizers. Whereas sanitizers only offer 2 minutes of protection, **NANOLAVA™** will give you up to 12 hours of protection!

With prolonged use Alcohol sanitizers can do more damage to your hands than help. On the other hand, soaps like **NANOLAVA™** literally demolishes viruses! Unlike alcohol based hand sanitizers, **NANOLAVA™** will not chap, dry out, or deplete the healthy bacteria on your hands, but will clean, sanitize and leave them soft and protected throughout the day and night. All without the use of water!

**NANOLAVA™** is not just for your hands! Use it to wash you entire body, and even to shampoo your hair. Experience the NANOLAVA difference for yourself!

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**NANOLAVA™**  
the future of cleaning green!



## HOW LONG WILL SANITIZERS PROTECT ME?

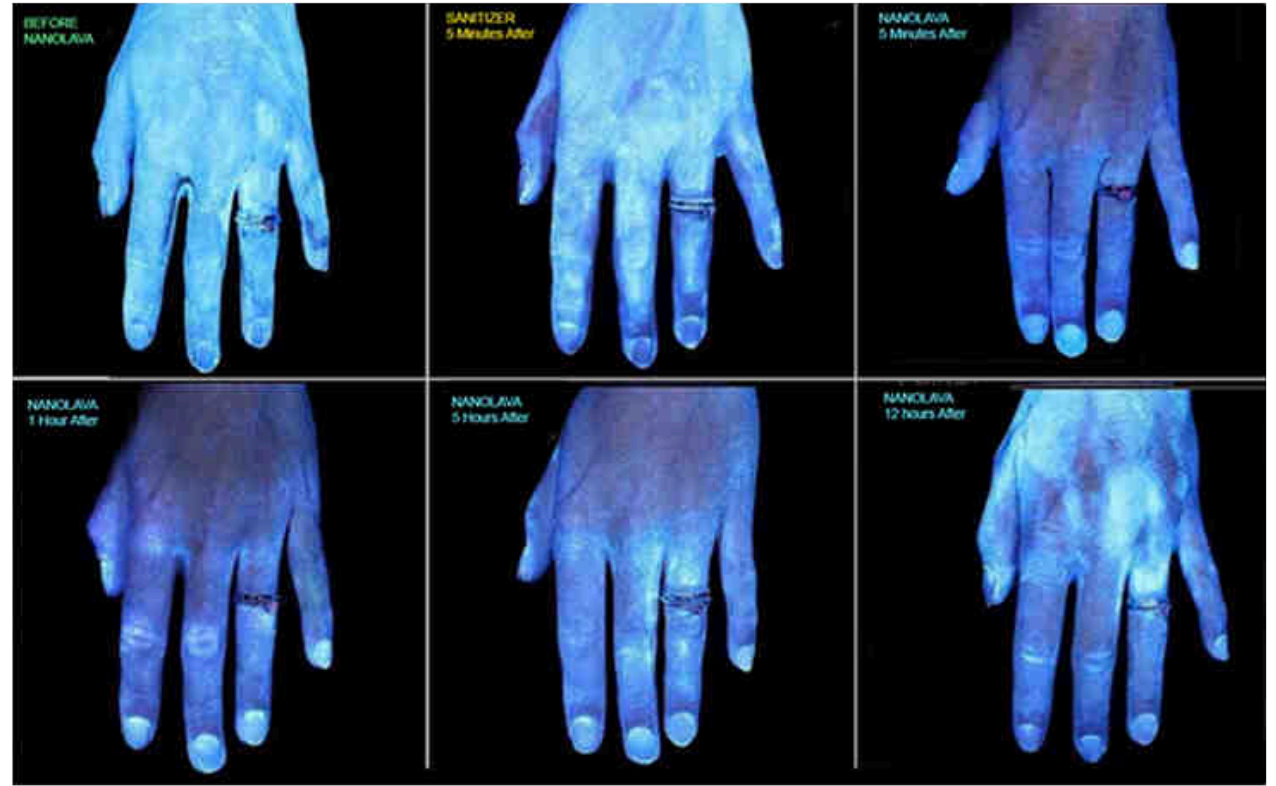
CBS News Medical Correspondent Dr. Jennifer Ashton tells "Early Show" co-anchor Harry Smith it's an important two minutes, though. "It really is!" Ashton said. "Well, we've said before that these are very, very effective in reducing transmission of the germs that can make us sick. It does not give you 100 percent protection and, in fact, they only work for two minutes. Doctors and surgeons like myself, not so much so. We know when we scrub in before a surgery, we are not eradicating all bacteria from our hands."

## HOW LONG WILL NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH PROTECT ME?

After comparing **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH** to a leading branded Sanitizer (75% Alcohol),

the results speak volumes. **NANOLAVA™** formula is made using our proprietary Nano-Colloidal technology which reduces the molecules 20X smaller than normal, allowing the formula to penetrate the upper layers of the epidermis for deeper cleaning and extends its biodegradability, offering continued protection for more than 12 hours, which is a lot more than 2 minutes of protection that sanitizers offer.

Because our hands are porous and we are constantly using and washing them, we recommend that using **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH** as needed during the day. One of the amazing attributes of this all natural, organic hand soap (other than it being rinse-less) is you can actually feel the product's protective layer on your skin.







**NANOLAVA™**  
fruit & vegetable wash

16 Oz. SPRAY

the future of cleaning green!



[www.nanolava.com](http://www.nanolava.com)



## NANOLAVA™ FRUIT & VEGETABLE WASH

THE GREEN WAY TO WASH YOUR FRUITS & VEGETABLES.

**USDA & NSF Compliant. Clinically Proven and Lab Certified. KILLS 99.9% of Viruses, Germs, Pathogens, Bacteria, Fungus, Mold & Mildew.**

Eliminates mold, fungus, and bacteria and safely removes wax, soil, agricultural chemicals, and handling residue found on both standard and organic fruits and vegetables.

Non-toxic, hypoallergenic, biodegradable, and made with natural, organic and biobased\* ingredients (\*as certified by the USDA BioPreferred Program)

Unlike other vegetable washes **NANOLAVA™ FRUIT & VEGETABLE WASH** will leave no funky after taste or smell and is not harmful even if swallowed in large amounts

When treated with **NANOLAVA™ FRUIT & VEGETABLE WASH** their Veggie-Clean shelf-life is extended.



**NANOLAVA™**  
fruit & vegetable wash

Available in  
16 oz. Spray



[www.nanolava.com](http://www.nanolava.com)

**NANOLAVA™**  
the future of cleaning green!



**NANOLAVA™**  
laundry detergent

the future of cleaning green!



[www.nanolava.com](http://www.nanolava.com)



## NANOLAVA™ NANO-CHARGED LAUNDRY DETERGENT

THE GREEN WAY TO LAUNDRY!

All Natural, Organic formulation, made with biobased\* ingredients (\*as certified by the USDA BioPreferred Program), and free of phosphates, chlorine, dyes, optical brighteners or synthetic fragrances.

**Clinically Proven and Lab Certified. KILLS 99.9% of Viruses, Germs, Pathogens, Bacteria, Fungus, Mold & Mildew.**

You'll get great results in both High Efficiency and standard machines, and in all water temperatures.

### NANOLAVA™ NANO-CHARGED LAUNDRY DETERGENT IS

100% Biodegradable, Non-Toxic and Hypoallergenic- leaving a clean, fresh scent that is gentle and safe for those with sensitive skin and allergies.

Safe for the entire family as there are NO harsh chemicals.



**NANOLAVA™**  
laundry detergent

Available in  
128 oz. (1 G.) Refill

[www.nanolava.com](http://www.nanolava.com)

**NANOLAVA™**  
the future of cleaning green!



the future of cleaning green!



**NANOBLASTER PRO™**  
nano-charged all purpose cleaner



[www.nanolava.com](http://www.nanolava.com)



## THE NON-TOXIC WAY TO CLEAN, SANITIZE & DISINFECT YOUR ENVIRONMENT.

**NANOBLASTER™ PRO** is a powerful but gentle concentrate formula made with fatty acids and botanic enzymes and minerals. It is a nanoparticle /colloidal micelle solution that creates a unique hydrocarbon release agent that lifts oils, dirt, grease, grime, dust and stains to without damaging or reacting with the surface being cleaned. It is appropriate for all types of metals, plastics, fabrics, concrete, faux finishes & food surfaces.

**NANOBLASTER™ PRO** Effectively eliminates germs and virus's including coronavirus and is safe to use on all non-porous surfaces including floors, countertops, cabinets, appliances, tile, lument, stone, porcelain, ceramic, wood and metals.

**NANOBLASTER™ PRO** is the perfect All Purpose cleaning, sanitizing and disinfecting solution for all environments, including: hospitals & healthcare centers, offices & schools, restaurants & hotels, manufacturing & food processing facilities and everywhere else people gather.

Unlike most cleaners and disinfectants **NANOBLASTER™ PRO** leaves no toxic residue. So now your carpets, furniture and walls are rid of harmful pathogens & toxic residue, plus your entire facility is now a toxic free environment!!

**NANOBLASTER™ PRO**'s ingredients meet criteria for the US EPA Design for the Environment Program and the Safer Detergents Stewardship initiative, and contain NO harmful or toxic chemicals including: Chlorine, Ammonia & Biocides. None of our ingredients appear on the California Proposition 65 or Canadian CEPA-DSL lists.



**NANOBLASTER PRO™**

nano-charged all purpose cleaner

**NANOBLASTER PRO™**

nano-charged all purpose cleaner

**Available in 2 Sizes**

34 oz. Spray

128 oz. (1 G.) Refill



[www.nanolava.com](http://www.nanolava.com)

**NANOLAVA™**

the future of cleaning green!



**NANOMKP™**  
mold killer pro

**SAFER CHOICE**  
Meets U.S. EPA  
Safer Product  
Standards

[www.nanolava.com](http://www.nanolava.com)

the future of cleaning green!



## NANOMKP™ "MOLD KILLER PRO" INDUSTRIAL STRENGTH ALL PURPOSE CLEANER & DEGREASER

**Clinically Proven and Lab Certified. KILLS 99.9% of Viruses, Germs, Pathogens, Bacteria, Fungus, Mold & Mildew.**

**NANOMKP™ "MOLD KILLER PRO"** is a heavy-duty Cleaner & Degreaser Concentrate based on next-generation Nano Technology, and is composed of non-ionic surfactants and a powerful aqueous natural solvent made from fatty acids and botanic enzymes and minerals.

**NANOMKP™** is a nanoparticle/colloidal micelle solution that creates a unique hydrocarbon release agent that lifts oils, dirt, grease, grime, dust and the stubbornest of stains without damaging or reacting with the surface being cleaned.

**NANOMKP™** is formulated to seek & remove particulates at the atomic level with minimal agitation. It is strong enough to demolish the heaviest greasy soils but safe to use around children, pets & even the chemically-sensitive.

**NANOMKP™** is 100% Non-toxic and harmless to humans, animals and plants. 10 times safer to aquatic life than conventional detergents. Allergy and chemically sensitive people can use it with complete confidence and safety.



**NANOMKP™**  
mold killer pro

Available in 2 Sizes  
34 oz. Spray  
128 oz. (1 G.) Refill





**NANOMKP™** outperforms the traditional degreasers to get the toughest jobs done but won't impact indoor air quality or the environment.

## FEATURES

### All Natural Ingredients

Derived from bio-based, renewable resources

### Readily Biodegradable

Hypoallergenic

### Non-toxic

Non-carcinogenic

### Non-fuming

Non-polluting

### No other hazardous or unnecessary ingredients

Non-corrosive

### Non-reactive

No Solvents.

### No Scrubbing

No VOCs\*

### No Fragrances or Dyes

No Petrochemicals

### No Phosphates, EDTA or NTA

Safe to use, store, dispose.

*\*In accordance with California Air Resources Board (CARB) Method 310 Regulations.*

[www.nanolava.com](http://www.nanolava.com)



**NANOLAVA™**  
the future of cleaning green!

## FIRE RESTORATION

Every fire has unique challenges, yet it is universally important to begin remediation rapidly in order to preserve property and restore structures to function. Damage from combustion residues can compound, but with environmental controls and targeted **NANOMKP™** treatments, deterioration can be arrested and corrected efficiently.

The products professionals need include those used in cleaning and deodorizing and **NANOMKP™** provides the most complete, most effective solution in every fire/smoke category: to restore a building to healthy occupancy, decrease costs and increase owner satisfaction.

Removal of combustion particulate is the most important restoration task and every fire job is unique. **NANOMKP™** attacks residues without any synthetic ingredients and provides the degreasing power of hydroxides & emulsifiers. It's ideal for cleaning fire & soot damaged items and what trusted professionals turn to.

**NANOMKP™** will kill odor causing microorganisms such as bacteria and mold on operational surfaces such as: walls, ceilings, and doors. By removing the majority of soot particles at the source, it will dramatically reduce the scent left from fires, and will neutralize airborne and surface odor emitting particulates.

[www.nanolava.com](http://www.nanolava.com)



**NANOMKP™**  
mold killer pro

**NANOLAVA™**  
the future of cleaning green!



**NANOMKP™** is the ultimate cleaner and degreaser and great for uses as Deck Wash, Bilge Wash, Engine Degreaser & Vinyl Cleaner.

**NANOMKP™** is suitable for use in restoration, decontamination & remediation sites (fire, water, sewage, trauma scene) including residential, schools, offices, hotels, health care & food preparation facilities, hospitals, nursing homes, medical, veterinary & dental offices, health professional, chiropractic & physiotherapy clinics, child care centers, nurseries, sickrooms, restaurants, kitchens, cafeterias, food storage areas, fitness gyms, spas, zoos, barns & kennels.

**NANOMKP™** labor-minimizing features makes it also the ideal solution for fire & smoke damaged contents & surfaces such as: walls, floors, countertops, cabinets, woodwork & appliances plus other porous & non-porous materials & surfaces commonly found in fire or water damaged sites.

**NANOMKP™** is appropriate for tile, laminate, stone, porcelain, ceramic, plastics, fabrics, and all types of metals, plastics, fabrics, concrete, faux finishes, foods and personal hygiene.



**NANOMKP™**  
mold killer pro





**NANOMKP™** is appropriate for all types of metals, plastics, fabrics concrete, faux finishes, foods and personal hygiene. 100% Biodegradable; Non-toxic; Derived from bio-based, renewable resources; Hypoallergenic; Non-carcinogenic; Non-fuming; Non-polluting; Non-reactive; Safe to use, store, dispose.

**NANOMKP™** DOES NOT CONTAIN: Acids; Ammonia; Animal Products; Chlorine; Glycol Ethers; Harmful Detergents; Ozone Depleting Substances; Petroleum Distillates; Phosphates; Synthetic Chemicals; Volatile natural Compounds (VOCs).  
No Solvents, No Scrubbing.

**NANOMKP™** ingredients have been identified, evaluated, and conform to and are defined as non-hazardous under OSHA Standards 29 CFR 1910.1200 (Hazard Communication Standard); None of the ingredients appears on the CEPA DSL or California Proposition 65 lists. None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA. None of this product's components are listed under SARA Section 302 (40CFR Appendix A), SARA Section 313 (40CFR 372.65) or CERCLA (40CFR 302.4). All of them are on the U.S. Food and Drug Administration's (FDA) GRAS (Generally Recognized As Safe) List.

**NANOMKP™** complies with: OSHA 29-CFR Ch. XVII 1910.1200 and 40 CFR Ch. 1, Subparts C&D  
USDA A1 General Cleaning & L1 Drain/Sewer Acceptable  
USEPA 821/R-02-012 for aquatic toxicity  
USEPA 601 & 602 for VOC testing

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**NANOMKP™**  
mold killer pro

**NANOLAVA™**  
the future of cleaning green!

## Basic Properties:

Chemistry Classification: Colloid

Appearance: Clear, viscous amber liquid

Odor: Mild Soap

Water Solubility: 100%

Boiling Point: 100C (212F)

Flash Point: None

Specific Gravity: 1.1119

Relative Density: > H2O

pH Range: 9.85 to 10.35



**NANOMKP™**  
mold killer pro



**NANOMKP™**  
mold killer pro

## MANUFACTURED IN A CERTIFIED PLANT

- SQF level 2 facility
- HACCP Food Safety Prerequisite Program
- OSHA Trained and Certified

## INSPECTED BY

- Food and Drug Administration
- U.S. Department of Agriculture
- Florida Department of Agriculture



MADE IN USA



## **NANOLAVA™ products are your safest most effective solutions.**

NANOLAVA™ has been lab tested and it KILLS 99.9% Viruses including Coronavirus.

1. Compared to traditional surfactants, **NANOLAVA™** products have significantly higher surface activity due to our formulations' unique natural enzymes.
2. When **NANOMKP™** is applied to mold, grease, oil and other stubborn stains, its micellar nanoparticles breaks down the toxic chemicals for easy removal. When flushed with water, the trapped oil and grease molecules are completely dissolved and removed as a Biodegradable residue resulting in non-toxic runoff.

Case Study 1 : Major Oil Spills (dissolve toxic chemicals, safe treatment of wildlife/sea life, safer for staff) - **NANOMKP™**





Case Study 2: Candy Factory (remove syrup residue, reduce maintenance/shutdown, lower repairs cost) - **NANOLAVA™ RINSELESS HAND WASH, NANOMKP™ & NANOBLASTER PRO™**

Case Study 3: Auto Trucking Facility (remove grease/oil from facility, clean truck fleet, lower cost) - **NANOMKP™ & NANOBLASTER PRO™**

Case Study 4: Public School System (safe decontamination and cleaning facilities, safer for staff) - **NANOLAVA™ RINSELESS HAND WASH, NANOMKP™ & NANOBLASTER PRO™**

Case Study 5: Professional Football Team (safe decontamination and cleaning facilities) - **NANOLAVA™ RINSELESS HAND WASH, NANOMKP™ & NANOBLASTER PRO™**

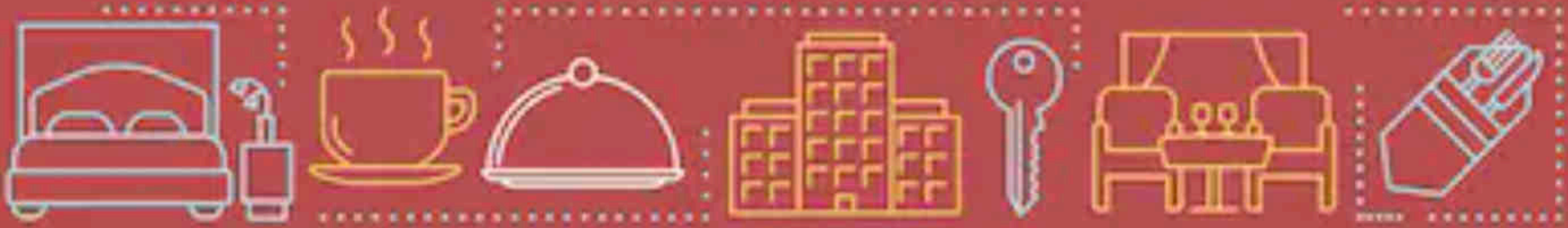
Case Study 6: Treatment of child allergy/rash problems - **NANOLAVA™ RINSELESS HAND WASH & NANOLAVA™ LAUNDRY DETERGENT**

Case Study 7: Restaurant and Fitness Centers (safe decontamination and cleaning facilities) **NANOLAVA™ RINSELESS HAND WASH, & NANOBLASTER PRO™**





# HOSPITALITY





## HOSPITALITY

COVID-19 has impacted the hospitality industry in many ways. For one, we can expect people to be more conscious of the sanitary conditions at hotels and restaurants they frequent. Even before the global pandemic took rise, studies showed that 81% of consumers strongly prefer to patronize companies that help improve the environment in their practices. Using eco-friendly cleaning products at your property is not only good for the environment, but also good for the well-being of staff, guests, and your reputation.

**NANOLAVA™** Products are essential for guests who are immune-compromised or hyper-allergenic and for those who wish to stay in rooms that have been cleaned with a totally non-toxic cleaner for all purposes.

Using **NANOLAVA™** Products pays long-term “Green Dividends” by reducing the hidden costs of using toxic cleaners and pesticides.

Using **NANOLAVA™** Products can reduce employee absenteeism due to respiratory and other illnesses, reduce long-term health effects of constant exposure to toxic cleaners, reduce “down time” due to bedbug infested bedding and the required room disinfection procedure, reduce refunds/compensation stays to affected guests.

With the capability of replacing any of the petrochemical or other toxic cleaners on the market today, **NANOLAVA™** offers industry an effective and environmentally friendly solutions for all their cleaning problems at highly competitive pricing.







# JANITORIAL & SANITATION

NANOLAVA Products can be used in all sectors including;  
Hospitals & Medical Facilities, Educational Institutes,  
Department Stores & Malls, Entertainment & Sporting  
Venues, Commercial Spaces & Offices, Hair Salons,  
Beauty Shops, Government Buildings, Senior Citizen  
Centers, and much more





## JANITORIAL & SANITATION

**NANOLAVA™** Products are suitable for the varied and widely diverse applications of the Janitorial Sanitation market, and are a replacement for the conventional, and potentially dangerous petrochemical based cleaning agents being sold today for commercial, industrial, governmental and household application.

Its unique ability to cut through and emulsify hydrocarbons (wax, oil, grease, fat) and remove stains, makes **NANOBLASTER PRO™ NANO-CHARGED ALL PURPOSE CLEANER** is an indispensable multi purpose cleaner for schools, office buildings, government facilities and factories to restaurants and hotels. Its antimicrobial properties also make it an excellent disinfectant and sanitizer for hospitals and food processing plants.

**NANOBLASTER PRO™ NANO-CHARGED ALL PURPOSE CLEANER** will not only clean as well, or better, than any other product on the market, but it is much more economical and, even more important, can result in labor savings in excess of 50%. As an example, hospital custodians report that after applying it as a floor stripper, there is no need to rinse the floor afterwards to remove chemical residues, thereby cutting the time factor by more than half.

Not only can you now rely upon an environmentally healthy product for all your cleaning needs, you can do so knowing it will very often do a better job than what you are presently using, and will, in addition, cost you substantially less to purchase. If we add in the factor of savings in labor, which will most likely be of much greater importance than savings in product cost, it is easy to understand why.





# INDUSTRIAL MANUFACTURING

NANOLAVA Products can be used in all manufacturing sectors including; Clothing, Textiles, Metal, Wood, Petroleum, Chemicals, Plastics, Electronics, Computers, Transportation, Food Production, Leather & Paper.





## INDUSTRIAL MANUFACTURING

The industrial sector provides a vast array of potential applications for **NANOLAVA™** Products heavy-duty colloidal cleaning power. They offer the manufacturing sector a powerful and highly economical cleaner/degreaser/ emulsifier that can expeditiously facilitate various aspects of the manufacturing process.

**NANOLAVA™** Products are more efficient and cost effective than standard chemical solvents in the cleaning of greasy or oily residues, due to its very powerful ability to emulsify hydrocarbons.

**NANOLAVA™** Products are without equal for numerous other applications, as well as other major industries. They can not only equal chemical cleaners in effectiveness, but due to their disinfecting and sanitizing properties, they can often replace the need for multiple products with just a single application.

Of equal importance is the time and labor saving benefit of being able to dispense with rinsing, as unlike chemical cleaners, there are no noxious residues that require removal.

The uses in the industry for **NANOMKP™** MOLD KILLER PRO's heavy duty nano colloidal cleaner/degreaser are almost endless: Metal Processing: Phosphating, plating, pickling, machining and forming - where it is used for cleaning and lubricating shop equipment. Processing Cleaning: Pressure washing and steam cleaning - where it is extremely effective in cleaning parts, washers and solvent tanks. It also can remove hydrocarbon residues and dirt from building exteriors and parking structures .



# TRANSPORTATION

Aviation, Marine, Rail  
Tucking & Automotive



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**Transportation:** Aviation, marine, rail, trucking, and automotive.

**NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER** is ideal for cleaning passenger compartments, cargo holds and facilities, maintenance on large-scale cruise ships, ocean liners or cargo vessels and exterior and interior cleanup of airplanes. Additional applications include food preparation/catering facilities, fuel spill cleanup, as well as terminal and harbor maintenance. It also does a superb job in the routine cleaning of hard surfaces, upholstery and carpeting.

**Waste Water Treatment:** **NANOMKP™** Oil separator, heavy metal separation and reduction of BOD, turbidity, odor.

**Dust Palliative:** **NANOMKP™** Mining, construction, road maintenance, parking lots.

**NANOMKP™** degreases carbon soot from fuel exhaust areas to engine blocks and is similarly effective in the neutralizing of crude oil spills to the cleaning of mold and mildew from canvas tops and decks of boats.

Unlike most caustic cleaners, **NANOMKP™** does not contain reagents that oxidize finishes, causing rust and degrading of elastic materials such as rubber or vinyl. On the contrary, it actually improves the life of hoses, seals, gaskets, paint finishes and other hard surfaces.





# FITNESS CENTERS



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## FITNESS FACILITIES

With the onset of the COVID-19 virus and the presence of other harmful germs (bacteria, viruses, fungus), fitness facilities need to review their disinfecting procedures to protect their clients' health.

We recommend that all fitness facilities and personal trainers follow proper cleaning and disinfecting guidelines to help prevent the spread of harmful germs.

### **Studies show that fitness facilities are a fertile environment for harmful germs and bacteria.**

Several research studies found that gyms contained high amounts of viruses and bacteria on various surfaces (e.g., floors, counters), and exercise equipment.

One research study found that exercise equipment was contaminated with viruses more than bacteria. Specifically, weight equipment was more contaminated than aerobic equipment.

A busy fitness facility often involves multiple individuals touching the same surfaces and equipment, which can increase the spread of harmful germs.

## FACILITY CLEANING AND DOCUMENTATION IN 3 STEPS

Preventing the spread of harmful germs should be a priority for any fitness organization.

Fitness facilities can ensure a clean and safe environment by following three steps: training, cleaning schedule, and documentation.

1. Fitness organizations should properly train all employees in personal hygiene (e.g., washing hands) and disinfecting procedures.
2. Every organization should have a daily cleaning schedule for employees to follow to ensure the facility is cleaned regularly.
3. There should be a continuous documentation log of cleaning practices to ensure that all facility disinfecting is being accomplished daily. Having a consistent, daily cleaning schedule can be difficult in a busy facility. Organizations should strive to have a reliable cleaning plan to protect professionals and clients.

### When cleaning and disinfecting your gym, we suggest these 3 Easy Steps:

1. Wash hands before cleaning using **NANOLAVA RINSELESS NANO-CHARGED HAND WASH.**

The best weapon for preventing the spread of coronavirus, is hand washing with **NANOLAVA RINSELESS NANO-CHARGED HAND WASH.** A smart plan to keep your customers' and trainers' hands germ and bacteria-free.





An ideal and perfect complimentary item for any gym's bathroom and shower, **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH** can also be used to help your fitness center's guests get clean from head to toe with a smooth lather that promotes healthy hair and skin.

Installing a premium touch-free soap dispensing system lets your customers know your gym is clean and professional.

Our **1000ML Automatic Soap Dispenser Wall Mount** is an attractive and versatile hand hygiene kit that is easily to install anywhere in your fitness facility. It also comes with an adjustable floor stand option.

Refilling is easy with our 128oz. refill bottles of **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH**.

We recommend placing one **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH 128oz** container with pump cap dispenser or NANOLAVA hand wash dispenser (wall mounted or floor stand) at every entrance. If the space is bigger, place one every 25 feet.



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2. Pre-clean surfaces (equipment, mats, counters, floors) by using **NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER**. Most fitness facility surfaces and equipment are non-porous (not allowing liquid or air to pass through) and can be sanitized or disinfected. Non-porous surfaces include glass, metals, plastics, glazed tiles, and marble.

Spray on surface. Let sit on for 10 seconds then wipe surfaces in the same direction - versus back and forth - to prevent contamination.

Refill the spray bottle with our 128oz. bottles of **NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER** as needed.

3. Use **NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER** in a dry fogger to disinfect the entire room.

Because it is a dry fog, and because **NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER** is All Natural and 100% Non-toxic, clients can be in the space when "dry" fogging as they will not feel moisture, nor will the solution give them any adverse effects. Because the particles are nano-fied so small, the fog will settle onto every surface, into every crack and crevice, to clean and kill 99.9% of all germs, viruses, bacteria, and pathogens, fungus, mold & mildew, thus making your facility clean, sanitized, disinfected, virus free, toxic free.

We recommend one 128oz (1 gallon) bottle of **NANOBLASTER PRO™ NANO CHARGED ALL PURPOSE CLEANER** for every 1,000 sq. ft., per month.





### 3 STEPS TOWARDS A CLEANER GYM

As a fitness professional, you will want to teach your clients how to prevent the spread of harmful germs. You can explain the process in three easy steps: cover, wipe, then wash.

1. Use a towel to cover the equipment when used during a workout to create a barrier between the client and the equipment surface.
2. After use of equipment, spray **NANOBLASTER PRO™ NANO-CHARGED ALL PURPOSE CLEANER** on equipment surface, leave on for 10 to 30 seconds then wipe with towel or paper towel. This especially applies for individuals who may sweat on the equipment.
3. Wash hands with **NANOLAVA™ RINSELESS NANO-CHARGED HAND WASH** after every workout. This is a crucial measure to prevent the spread of harmful germs among individuals







# FOOD PROCESSING

NANOLAVA Products can be used in food processing sectors including Canneries, Fish Processing, Plants, Food Packaging Plants, Industrial Rendering Plants, Meat Packing Plants, Slaughterhouses, Sugar Industry, Dairy & Produce Plants, and more.



## FOOD PROCESSING

**NANOLAVA™** Products properties as a soap/cleaner makes it very effective in all major food processing steps including multi-stage flumes, chill tanks, coolers, washing equipment and processing systems.

**NANOLAVA™** Products have been approved by the NSF for use in and around food processing and food handling areas. NSF Registration assures inspection officials and end users that the product and labeling meets appropriate food safety regulations. It provides product manufacturers, users, and regulatory/inspector groups with a proven method to determine product acceptability. This program compliments food processing equipment certification and NSF's food safety evaluations.

**NANOLAVA™** Products are compliant with HACCP, which mandates that all meat and poultry establishments must identify and manage critical control points in food processing. Control points are defined as those where chemical, physical, and microbial contamination may occur. Once these points are identified, the processor must reduce contamination risk and maintain documentation describing the corrective actions taken.

**NANOLAVA™** Products are compliant as an A1 Cleaner. A1 Cleaners consist of compounds for use as general cleaning agents on all surfaces, or for use with steam or mechanical cleaning devices in all departments. Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, surfaces must be thoroughly rinsed with potable water.

***An indication of the extent of this versatility can be gleaned from the following:***

**Food Process Cleaning:** Excellent post harvest cleaner for fruits, nuts, grains and vegetables; in-line wash systems, CIP, dump tanks, brush cleaning and facilities maintenance.

**Meat, Poultry and Fish Processing:** All purpose cleaning of floors, walls, storage lockers, grease traps and drains, collection cisterns, cutting utensils and equipment, cook kettles and fat separators.

**Dairy Product Processing:** Milk processing lines, CIP, storage tanks, blenders and chillers and all purpose maintenance of floors and drains.

**Beverage Production:** Maintaining equipment, CIP, syrup tanks, inline and rotary fillers, conveyor slip agent and facilities maintenance.

**Breweries:** Maintaining outside vessels, vat and kettle cleaning, inline an rotary fillers, conveyor slip agents and floor/drain cleaning, CIP.

**NANOBLASTER PRO™ NANO-CHARGED ALL PURPOSE CLEANER** is an ideal cleaner for many of the mechanical items in common usage in the food processing and restaurant industries. It not only offers a one-stop solution to the myriad problems afflicting the various aspects of the industry, it does so in a manner that offers substantial savings both in terms of labor savings and product cost.





## WASH FRUIT AND VEGETABLES

**NANOLAVA™ FRUIT & VEGATABLE WASH** is USDA and NSF compliant and can be employed for the washing of fresh cut and processed fruits and vegetables.

Recent testing has shown that when orchard fruit, such as apples, pears or peaches, are treated with **NANOLAVA™ FRUIT & VEGATABLE WASH**, its Veggie-Clean shelf-life is extended with reduced fruit loss.



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## OUR MISSION

**NANOLAVA™** is manufactured in the United States of America.

**NANOLAVA™** is dedicated to improving quality of life and health by making high performance, non-toxic cleaning solutions.

**NANOLAVA™** makes products that are 100% safe and effective, offering an alternative to the growing number of harmful chemicals in other cleaning, sanitizing and disinfecting products, on the market today.

## OUR COMMITMENT

1. To provide safer, healthier environments for homes, businesses, healthcare facilities, government and to the general public overall.
2. To reduce or eliminate toxic products that pollute our daily lives by providing consumers with superior-quality toxin-free alternatives.
3. To improve the quality of life and health for our families, our communities and all creatures in our environment.
4. To help make our entire Planet Clean and Green for our collective future.



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