

NPH 160 Neutral pH Oxidizing Cleaner, Disinfectant and No Rinse Sanitizer

- **DIN: 02465485**
- **ACTIVE INGREDIENT 0.016% SODIUM HYPOCHLORITE**
- **KILLS BACTERIA, KILLS VIRUSES, KILLS FUNGI**
- **INERT INGREDIENTS 0.01% SODIUM CHLORIDE, SODIUM BICARBONATE, ACETIC ACID**

Spray on surfaces to Clean, disinfect and no rinse sanitize food contact surfaces. Many facilities have embraced the use of electrostatic spray devices as an efficient application method of cleaning and disinfecting chemicals. With COVID-19 surfaces are treated many times during the day and applied over wider areas. Repeated exposure to chemicals and their residues are now coming to the attention of public health officials.

Protecting Public Health by Frequent Cleaning of Frequently Touched Surfaces Has Become the New Normal.

Use of electrostatic sprayers increases chemical exposure to cleaning staff and building occupants. PCS NPH 160 Neutral pH Oxidizing Cleaner Disinfectant and No Rinse Sanitizer is

- SAFE**
- To use through sprayers including electrostatic sprayers
 - For staff and building occupants
 - Not corrosive or damaging to surfaces
 - Use to clean and disinfect or no rinse sanitize food contact surfaces and equipment
 - Leaves 95 to 99 % less residual chemical than competitors products
 - Contains no synthetic chemicals

The World Health Organization guidance document does not support widespread application of disinfecting chemicals through electrostatic sprayers or fogging machines.

“Spraying disinfectants and other no-touch methods in indoor spaces, routine application of disinfectants to environmental surfaces by spraying or fogging (also known as fumigation or misting) is not recommended for COVID-19.”

PCS encourages all consumers considering the use of electrostatic sprayers to consider the safest products, which often can be measured by exposing staff and building occupants to the minimum amount of chemical. The occupational exposure to Quats in the air was demonstrated after a significant number of building occupants became injured from exposure in a building being humidified with a diluted quat. Assessment of respiratory and systemic toxicity of Benzalkonium chloride following a 14-day inhalation study in rats.

“Conclusions: As a result, it was confirmed that the target organs in the respiratory system were the nasal cavity and the lungs. The adverse effects were evaluated as reversible responses to oxidative damage. Furthermore, the no observed adverse effect level was found to be less than 0.8 mg/m³ and the lowest benchmark dose was 0.0031 mg/m³. Accordingly, the derived no-effect level of BAC was calculated as 0.000062 mg/m³.”

Similar unreported toxicity likely exists with other disinfecting chemicals applied through electrostatic sprayers. Use the minimum amount of chemical with a neutral pH. PCS NPH 160 Neutral PH Oxidizing Cleaner Disinfectant and No Rinse Sanitizer. Contains less than 0.035% naturally derived chemicals with dried surface residue of less than 0.01%.

Classified Ingredients Ingredient(s) CAS # Weight %	
Benzyl alcohol 100-51-6	1 - 5%
Hydrogen peroxide 7722-84-1	> 0.1 - < 1%
Dodecylbenzene sulfonic acid 68584-22-5	> 0.1 - < 1%
Use concentration Benzyl alcohol	min 1% 10,000 ppm Maximum 5% 50,000 ppm
Hydrogen Peroxide	0.1% 1000 ppm Maximum 1% 10,000 ppm
Dodecylbenzene sulfonic acid	0.1% 1000 ppm Maximum 1% 10,000 ppm
Minimum chemical exposure	1.2% 12,000 ppm Maximum 7% 70,000 ppm
Residual chemicals	
Dodecylbenzene sulfonic acid	0.1% 1000 ppm acidic anionic surfactant
Benzyl alcohol	1% 10,000 ppm very slow evaporating alcohol

NPH 160 Neutral PH Oxidizing Cleaner, Disinfectant and No Rinse sanitizer Safety data sheet list no hazardous chemicals.	
The concentration of chemicals are either non hazardous or below the level that requires reporting.	
Active ingredient	0.016%v160 ppm sodium hypochlorite.
Inert ingredients	0.01% 100 ppm Sodium Chloride, Sodium Bicarbonate, Acetic Acid
Chemical exposure	0.026 % 260ppm
Residual chemical	0.01% 100ppm sodium chloride (salt) and sodium bicarbonate (baking soda)
In summary Cleaning staff and building occupants are exposed to when using	
Hydrogen peroxide disinfectant	a minimum of 1.2% 12000ppm of synthetic chemicals.
When using NPH 160 disinfectant cleaner and no rinse sanitizer	0.026% 260 ppm

The accumulative effects of repeated chemical exposures are important considerations when using electrostatic spraying devices.

[Rush to Disinfect U.S. Offices Has Some Health Experts Worried - Click to download](#)

[Can shopping cart disinfectant cause chemical skin reactions? A Houston doctor weighs in. - Click to download](#)

[Cleaning and disinfection of environmental surfaces in the context of COVID-19 - Click to download](#)

[Assessment of respiratory and systemic toxicity of Benzalkonium chloride following a 14-day inhalation study in rats. - Click to download](#)