

# Sanitizing Fact Sheet

## ***What's the Risk?***

Food residues on food-contact surfaces and equipment can provide an ideal environment for the growth of disease-causing bacteria, which can easily contaminate other foods. Soiled wiping cloths can also become a breeding ground for bacteria to be transferred to other surfaces. If food residues are not cleaned within the required frequency, bacteria may multiply to dangerous levels. Routine cleaning and sanitizing of food-contact surfaces and equipment is necessary to prevent the growth of bacteria.

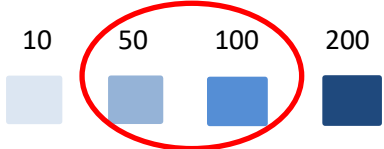
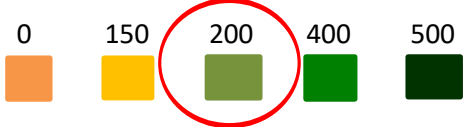
## **Sanitizer Solutions**

Type:	Concentration:	Temperature Range:	Residual	Note:
<b>Chlorine (Bleach)*</b>	50 to 100 ppm	55°F-75°F	None	<ul style="list-style-type: none"> <li>• They are effective against all bacteria</li> <li>• Do not use splashless, scented or non-chlorine/color safe bleach</li> <li>• MORE IS NOT BETTER!</li> </ul>
<b>Quaternary Ammonia (QUAT)</b>	Per manufacturer's instruction	Stable at high temperatures up to 100 F	Yes	<ul style="list-style-type: none"> <li>• Longer contact time is needed with this sanitizer, since it is slow-acting against some common spoilage bacteria.</li> </ul>
<b>Iodine</b>	12.5 to 25 ppm			<ul style="list-style-type: none"> <li>• Iodine compounds or iodophors are fast-acting and effective against all bacteria.</li> <li>• Iodophor solutions may stain porous surfaces and some plastics</li> </ul>

*\*Follow manufacturer's label instructions; using sanitizers above recommended concentrations does not sanitize better and may corrode equipment. High concentrations can be unsafe and leave an odor or bad taste on surfaces. A suitable testing method must be available and used regularly to ensure correct sanitizer levels throughout the day. Every establishment must have appropriate sanitizer test kits available to monitor the sanitizer's concentration.*

## **Test Strips**

**IMPORTANT NOTE → Colors May Vary by Manufacturer**

<b>Chlorine (Bleach)</b>	<b>Sanitize-</b>	Range: 50-100 PPM 1 tablespoon of bleach per gallon of water for food contact surfaces	Color: White Test Strip  10    50    100    200 
	<b>Disinfect-</b>	Range: 800-1,000PPM 1/3 cup of bleach per gallon of water for non-food contact surfaces	
<b>Quaternary Ammonia (QUAT)</b>	<b>Sanitize-</b>	Per Manufacture Instructions 200 PPM for food contact surfaces.	Color: Peach Test Strip  0    150    200    400    500 
	<b>Disinfect-</b>	>400 PPM for non-food contact surfaces	
<b>Iodine</b>		Per Manufacture Instructions	Variable by type

## How to Sanitize

**Buckets should be changed every 2-4 hours or more as needed to keep the water clean and the sanitizer effective in use.**

### **Buckets/Containers**

- Buckets that are easily identifiable (e.g. red buckets) and not used for any other purposes do not require labels. Buckets that are not easily identifiable must be labeled “sanitizer,” or the name of the chemical.
- Store buckets below and away from foods and food contact surfaces.
- **Keep wiping cloths stored in bucket with sanitizer solution when not being used.** Rags in use should test positive for sanitizer.
- Replace solutions when the concentration gets weak or when the solution becomes cloudy.
- Designate a separate sanitizer bucket strictly for raw animal product(s) where needed.



### **Spray Bottles**

- Properly label spray bottle(s) “sanitizer,” or name of chemical.
- Never spray around open food and only where foods are protected with an impermeable cover.
- Replace solutions when the concentration gets weak or when the solution becomes cloudy.
- Allow for the appropriate contact time before wiping off.
- Use disposable cloths for use with spray bottles. Do not use cloth towels.

**Test solutions with test strips regularly to ensure that they are maintaining the proper strength of sanitizer for food contact surfaces.**

**There are 3 factors that influence the effectiveness of chemical sanitizers.**

1. **Concentration** — not using enough sanitizing agent will result in an inadequate reduction of microorganisms. Using too much sanitizing agent can be toxic.
2. **Temperature** — generally chemical sanitizers work best at temperatures between 55°F (13°C) and 120°F (49°C). (See manufacturer’s recommendations for specific temperatures.)
3. **Contact time** — to effectively kill microorganisms, the cleaned item must be in contact with the sanitizer (either heat or approved chemical) for the recommended length of time.