

# TECHNICAL DATA



## K-Quat 4

### Quaternary Ammonium Sanitizer

#### Product Description and Purpose

**K-Quat 4** is a concentrated, quaternary sanitizer for sanitizing, disinfecting and deodorizing all types of hard surfaces. **K-Quat 4** contains a blend of four quaternary ammonium chlorides (four-chain QAC) that provide broad spectrum kill six times greater at 150 ppm than a single chain quat at 200 ppm and two times greater than a dual chain quat at 200 ppm. Especially effective against gram positive and gram negative microbes and fungi. **K-Quat 4** is virus and protein tolerant.

#### ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride.....	2.250%
Didecyl Dimethyl Ammonium Chloride .....	1.125%
Diocetyl Dimethyl Ammonium Chloride .....	1.125%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride	3.000%
<b>INERT INGREDIENTS:</b> .....	<u>92.500%</u>
<b>TOTAL</b> .....	100.000%

#### Features/Benefits

Concentrated	Economical to Use
Non-Corrosive	Safe on All Surfaces
Deodorizes	Minimizes Off-Odors in Use Areas
Disinfectant/Sanitizer	Significantly Reduces or eliminates Most Bacteria, Yeast and Molds When Used as Directed

#### Surfaces Applicable

**K-Quat 4** is safe on all surfaces when used as directed.



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## General Usage Directions

For food contact surfaces (no-rinse approved), available quat must be maintained between 150 and 400 ppm.

Prepare a 150, 200, or 400 ppm active quaternary solution use the following dilution table.

Active quat solution	1 gallon	4 gallons	10 gallons	20 gallons
150 ppm	¼ ounce	1.0 ounce	2 ½ ounces	5.0 ounces
200 ppm	0.34 ounces	1.36 ounces	3.4 ounces	6.8 ounces
400 ppm	0.67 ounce	2.67 ounces	6.67 ounces	13.3 ounces

Refer to product label for specific sanitizing and disinfecting preparation and use directions.

## Where Used

**K-Quat 4** is highly recommended for use in red meat and pork packing plants, poultry slaughter and further processing plants, dairies, canning plants, bakeries and any other type of food processing plants that desire a residual kill, mold inhibiting micro-biocide. **K-Quat 4** can be used to sanitize and disinfect all types of hard surfaces in food processing plants, hospitals and institutions. Effectively used through flood sanitizing, spray sanitizing and foot bath sanitizing systems. Always follow label instructions and for more information please request complete label from your C K Enterprises, Inc., representative.

At 0.25 ounces per gallon (1 ounce per 4 gallons) (150 ppm) this product is an effective food-contact surface sanitizer in water up to 500-ppm hardness against *Escherichia coli* and *Staphylococcus aureus*.

At 0.34 ounces per gallon of water (1.36 ounces per 4 gallons) (200 ppm), this product is an effective food-contact surface sanitizer in water up to 500-ppm hardness against:

<i>Campylobacter jejuni</i>	<i>Salmonella enteritidis</i>
<i>Escherichia coli</i>	<i>Shigella dysenteriae</i>
<i>Escherichia coli</i> O157:H7	<i>Staphylococcus aureus</i>
<i>Listeria monocytogenes</i>	<i>Yersinia enterocolitica</i>
<i>Salmonella choleraesuis</i>	



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## Authorization/Discussion

**K-Quat 4** has been cleared by the FDA in 21 CFR Section 178.1010 for use on food processing equipment, utensils, and other food contact articles at a concentration of 150-400 ppm active.

This product has been authorized by the USDA as a sanitizer for all food contact surfaces.

This product meets AOAC Use Dilution Test Standards for hospital disinfectants.

This product meets AOAC Germicidal and Detergent Test Standards for food contact surfaces.

This product meets AOAC efficacy standards for hard surface sanitizers.

EPA Reg. No.: 10324-81-65151 – EPA Est. No.: 49614-MO-001

## Physical Properties

**K-Quat 4** contains a blend of four quaternary ammonium compounds.

Form	Liquid
Odor	Quat/Fragrant
Color	Clear
pH 1%	6.5-8.0
Specific Gravity	1.00-1.05
Foam	Low to Moderate
Previous FSIS/USDA	D-2

## Caution

Corrosive. **K-QUAT 4** should never be used with strong oxidizing or reducing agents and should not be mixed with soap or anionic detergents. Keep out of reach of children. For industrial use only. Read Safety Data Sheets for more information.



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