

III. Food Contact Surface Sanitizing Solutions

Article 2. Use Level

Hydrogen Peroxide Preparations

Hydrogen Peroxide should be only used for sanitizing food contact material, container, and packaging below.

1. When using sterilizing and fumigating of food contact surfaces, the usage is as below
 - 1) Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time) : not more than 91mg/l (as Hydrogen Peroxide)
 - 2) Dairy-processing equipment : not more than 465mg/l (as Hydrogen Peroxide)
 - 3) Food-processing equipment : not more than 1,100mg/l (as Hydrogen Peroxide)
2. When using for sterilization of food container and packaging
 - 1) It should be removed by rinsing with sterile water or drying with hot air.
 - 2) Residual quantity test below should be proceeded, the residue of Hydrogen Peroxide in container · packaging should be not more than 0.5mg/l.

Peroxyacetic Acid Preparations

Peroxyacetic acid should be only used for sanitizing food contact material, container, and packaging below.

1. When using sterilizing and fumigating of food contact material, the usage is as below
 - 1) Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time)

Peroxyacetic Acid	Not more than 58mg/l
Hydrogen peroxide	Not more than 91mg/l
Peroxyoctanoic acid	Not more than 52mg/l
Octanoic acid	Not more than 52mg/l
(1-hydroxyethylidene)bis-, phosphoric acid	Not more than 14mg/l
1-Octanesulfonic acid, sodium salt	Not more than 46mg/l

2) Dairy-processing equipment

Peroxyacetic Acid	Not more than 315mg/l
Hydrogen peroxide	Not more than 465mg/l
Peroxyoctanoic acid	Not more than 122mg/l
Octanoic acid	Not more than 176mg/l
(1-hydroxyethylidene)bis-, phosphoric acid	Not more than 34mg/l
1-Octanesulfonic acid, sodium salt	Not more than 297mg/l

3) Food-processing equipment

Peroxyacetic Acid	Not more than 315mg/l
Hydrogen peroxide	Not more than 1,100mg/l
Peroxyoctanoic acid	Not more than 122mg/l
Octanoic acid	Not more than 234mg/l
(1-hydroxyethylidene)bis-, phosphoric acid	Not more than 34mg/l
1-Octanesulfonic acid, sodium salt	Not more than 312mg/l

2. When using for sterilization of food container and packaging

- 1) It should be removed by rinsing with sterile water or drying with hot air.
- 2) Residual quantity test below should be proceeded, the residue of Hydrogen Peroxide in container • packaging should be not more than 0.5mg/l.

Citric Acid Preparations

Citric acid should be only used for sanitizing food contact material below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time)
2. Dairy-processing equipment
3. Food-processing equipment

Ethanol Preparations

Ethanol should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating place (including food service providing food for less than 50 persons at a time)

2. Dairy-processing equipment
3. Food-processing equipment

Quaternary ammonium Compounds, n-Alkyl(C₁₂-C₁₈)benzyl dimethyl Chloride Preparations

Quaternary ammonium Compounds, n-Alkyl(C₁₂-C₁₈)benzyl dimethyl Chloride should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time)

Quaternary ammonium compounds, alkyl(C ₁₂ -C ₁₈)benzyl-dimethyl chlorides	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₄)dimethyl thylbenzyl ammonium chloride (average molecular weight 377 to 384)	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₈) dimethyl ethylbenzyl ammonium chloride, average molecular weight(in amu), 384	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 150mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Poly(hexamethylene biguanide) hydrochloride	Not more than 550mg/l

2. Dairy-processing equipment

Quaternary ammonium compounds, alkyl(C ₁₂ -C ₁₈)benzyl-dimethyl chlorides	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₄)dimethyl thylbenzyl ammonium chloride (average molecular weight 377 to 384)	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₈) dimethyl ethylbenzyl ammonium chloride, (average molecular weight, 384)	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 150mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 200 mg/l as sum of quaternary ammonium)
Poly(hexamethylene biguanide) hydrochloride	Not more than 550mg/l

3. Food-processing equipment

Quaternary ammonium compounds, alkyl(C ₁₂ -C ₁₈)benzyl-dimethyl chlorides	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 400 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₄)dimethyl thylbenzyl ammonium chloride (average molecular weight 377 to 384)	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 400 mg/l as sum of quaternary ammonium)

Quaternary ammonium compounds, n-alkyl(C ₁₂ -C ₁₈) dimethyl ethylbenzyl ammonium chloride, (average molecular weight, 384)	Not more than 200mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 400 mg/l as sum of quaternary ammonium)
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 240mg/l (as sum of quaternary ammonium, if used with other quaternary ammonium, not more than 400 mg/l as sum of quaternary ammonium)
Poly(hexamethylene biguanide) hydrochloride	Not more than 550mg/l

1-Decanaminium, N-decyl-N,N-dimethyl-, Chloride Preparations

1-Decanaminium, N-decyl-N,N-dimethyl-, Chloride should be only used for sanitizing food contact surface for preparing and processing of food. The usage should be not more than 200mg/l (as quaternary ammonium).

Iodine Preparations

Iodine should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time)

Iodine	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)
Iodine Potassium	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)

2. Dairy-processing equipment

Iodine	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)
Iodine Potassium	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)

3. Food-processing equipment

Iodine	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)
Iodine Potassium	Not more than 25mg/l (as titrated iodine, if used with other iodide, not more than 25mg/l as sum of titrated iodine)

Sodium Dichloroisocyanurate Preparations

Sodium Dichloroisocyanurate should be only used for sanitizing food contact material below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time) : not more than 100mg/l (as active chlorine)
2. Dairy-processing equipment : not more than 100mg/l (as active chlorine)
3. Food-processing equipment : not more than 100mg/l (as active chlorine)

Hypochlorous Acid, Sodium Salt Sodium Hypochlorite Preparations

Ethanol should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating place (including food service providing food for less than 50 persons at a time) : not more than 200mg/l (as active chlorine)
2. Dairy-processing equipment : not more than 200mg/l (as active chlorine)
3. Food-processing equipment : not more than 200mg/l (as active chlorine)

Hypochlorous Acid Water Preparations

Hypochlorous Acid Water should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time) : not more than 200mg/l (as active chlorine)
2. Dairy-processing equipment : not more than 200mg/l (as active chlorine)
3. Food-processing equipment : not more than 200mg/l (as active chlorine)

Poly(hexamethylenebiguanide)hydrochloride Preparations

Poly(hexamethylenebiguanide)hydrochloride should be only used for sanitizing food

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contact material below. The usage is as below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time)

Poly(hexamethylenebiguanide)hydrochloride	Not more than 550mg/l
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 150mg/l (as quaternary ammonium)

2. Dairy-processing equipment

Poly(hexamethylenebiguanide)hydrochloride	Not more than 550mg/l
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 150mg/l (as quaternary ammonium)

3. Food-processing equipment

Poly(hexamethylenebiguanide)hydrochloride	Not more than 550mg/l
Quaternary ammonium compounds, di-n-alkyl(C ₈ -C ₁₀) dimethyl ammonium chloride (average molecular weight 332 to 361)	Not more than 240mg/l (as quaternary ammonium)

Chlorine Dioxide Preparations

Chlorine Dioxide Preparations should be only used for sanitizing food contact material below. The usage is as below.

1. Food-contact surfaces in public eating places (including food service providing food for less than 50 persons at a time) : not more than 200mg/l
2. Dairy-processing equipment : not more than 200mg/l
3. Food-processing equipment : not more than 200mg/l