

ACCEPTED

SEP 11 1974

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO. 642-7 SUBJECT
TO ATTACHED COMMENTS.

Wyandotte™ **SPARTEC®**

Quaternary Ammonium Compound—Sanitizer, Disinfectant

DANGER

CORROSIVE: KEEP OUT OF REACH OF CHILDREN. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Protect eyes when handling. Harmful if swallowed. Avoid contamination of food. Avoid breathing spray mist. Rinse empty container thoroughly with water and discard it.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before re-use. If swallowed, drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, drink a large quantity of water. Call physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

USE DIRECTIONS

I. As a Sanitizer

A. Glasses—Dishes—Utensils

1. Scrape and pre-flush articles to be washed.
2. Wash in clean water using recommended product.
3. Rinse in clean running water.
4. Sanitize in Spartec solution containing 1 fl. oz. (2 tbs.) per 4 gals. water (200 ppm active agent). Immerse all items for at least 2 minutes or for contact time specified by governing sanitary code. Test periodically with quaternary tester. When solution depreciates below 200 ppm, discard.
5. Air-dry on clean drain board.

B. Dairy—Beverage—Food Processing Equipment

1. Clean equipment immediately after use.

ACTIVE INGREDIENTS

n-Alkyl* dimethyl benzyl ammonium chlorides	10.0%
Ethyl Alcohol	2.5%
INERT INGREDIENTS	87.5%
*(C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%)	100.0%

Phenol Coefficient—*Salmonella typhosa*—50
—*Staphylococcus aureus*—66

AOAC USE-DILUTION

<i>Staphylococcus aureus</i>	1:250
<i>Salmonella choleraesuis</i>	1:250
<i>Pseudomonas aeruginosa</i>	1:85

- a. Rinse with clean water.
 - b. Wash with recommended product.
 - c. Rinse with clean water.
 - d. Air dry—protect from dust and dirt.
2. Sanitize immediately before re-use with Spartec solution containing 1 fl. oz. (2 tbs.) per 4 gals. water (200 ppm active agent). Test periodically with quaternary tester. When solution depreciates below 200 ppm, discard.
- C. Non-Food Contact Surfaces
1. Clean immediately after use.
 2. Sanitize by spraying with Spartec solution containing 1 fl. oz. per 2 gals. water (400 ppm active agent).
- Do not rinse after sanitizing with Spartec solution unless required by local health authorities, then rinse with clean, safe water.

FOR INDUSTRY USE ONLY

CONTENTS 30 GALLONS

Do not mix with soap or anionic detergents.

II. As a Disinfectant

A. Medical and Veterinary Facilities, e.g. hard surfaces such as walls, floors and counters

1. Remove heavy soil prior to application.
2. Wipe or mop using Spartec solution containing 1 ½ fl. oz. per gallon water (1200 ppm active agent). Do not rinse.

B. Non-Medical Applications, e.g. shower rooms, rest rooms, floors and walls

1. Remove heavy soil prior to application.
2. Wipe or mop using Spartec solution containing 1 fl. oz. per 2 gallons water (400 ppm active agent). Do not rinse.

III. Mildew and Mold Control

Tile, Metal or Cement Surfaces

After cleaning, apply Spartec solution containing 1 ½ fl. oz. per gallon water (1200 ppm active agent) to moisten or dampen surfaces. Repeat every 14 days.

IV. As a Deodorant

Refrigerators, Cold Storage Rooms, Drains and Garbage Containers. After cleaning, rinse thoroughly and use Spartec solution containing 1 fl. oz. per 2 gals. of water (400 ppm active agent).

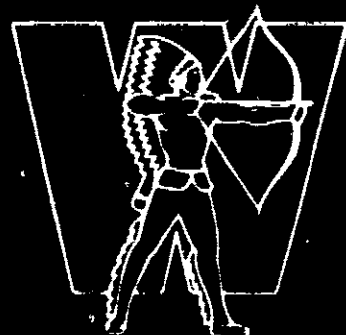
Do not rinse after sanitizing with Spartec solution unless required by local health authorities, then rinse with clean, safe water.

Do not mix with soap or anionic detergents.

Spartec fulfills the criteria of Appendix F, of the Grade "A" Pasteurized Milk Ordinance 1965 Recommendations of the USPHS in water up to 550 ppm (32 grains per gallon) of hardness calculated as CaCO₃ when tested by the AOAC Germicidal and Detergent Sanitizers—Official Method.

Freight Classification: Disinfectant, OTM—Liquid

BASF



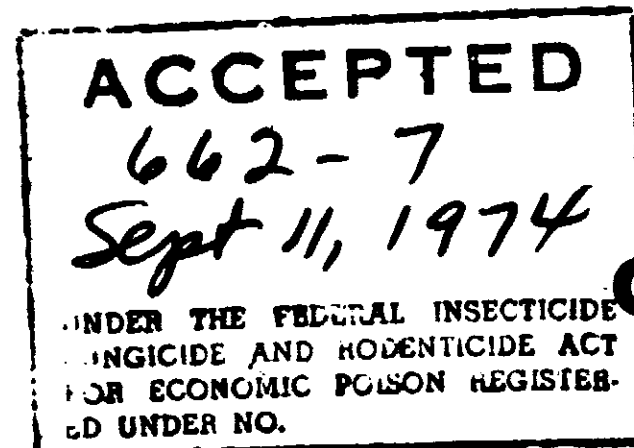
BASF Wyandotte Corporation
Chemical Specialties Division
Wyandotte, Michigan 48192

BASF



Wyandotte™

SPARTEC®



Quaternary Ammonium Compound— Sanitizer, Disinfectant

- Quaternary ammonium compounds are quite generally accepted for their sanitizing, disinfecting and odor-controlling characteristics. Thus, Spartec is recommended for such uses in food plants, on dairy farms, and in food serving operations, where spillage, waste disposal and reusable utensils frequently create unsanitary conditions.
- Spartec is effective against most pathogenic bacteria and guards against mold and bacterial build-up when used on and around equipment, as well as on floors and walls.
- Its sanitizing capabilities make Spartec an excellent product for deodorizing garbage cans, floor drains, in-sink disposal units, and for eliminating unsanitary conditions caused by spillage or leakage, on docks and driveways.
- Spartec is a liquid "cationic" quaternary ammonium compound. It does not lose its potency with age, or when subjected to a wide range of temperatures. Do not mix with soap or anionic detergents.
- Spartec will not corrode metal or attack rubber or plastic fittings and parts.
- A stable product, Spartec will not vaporize out of hot solutions, nor will it deteriorate in storage.

Wyandotte SPARTEC

USE DIRECTIONS

EPA Reg. No. 662-7

I. As a Sanitizer

A. Glasses—Dishes—Utensils

1. Scrape and pre-flush articles to be washed.
2. Wash in clean water using recommended product.
3. Rinse in clean running water.
4. Sanitize in Spartec solution containing 1 fl. oz. (2 tbs.) per 4 gals. water (200 ppm active agent). Immerse all items for at least 2 minutes or for contact time specified by governing sanitary code. Test periodically with quaternary tester. When solution deprecates below 200 ppm, discard.
5. Air-dry on clean drain board.

B. Dairy—Beverage—Food Processing Equipment

1. Clean equipment immediately after use.
 - a. Rinse with clean water.
 - b. Wash with recommended product.
 - c. Rinse with clean water.
 - d. Air dry—protect from dust and dirt.
2. Sanitize immediately before re-use with Spartec solution containing 1 fl. oz. (2 tbs.) per 4 gals. water (200 ppm active agent). Test periodically with quaternary tester. When solution depreciates below 200 ppm, discard.

C. Non-Food Contact Surfaces

1. Clean immediately after use.
2. Sanitize by spraying with Spartec solution containing 1 fl. oz. per 2 gals. water (400 ppm active agent).

Do not rinse after sanitizing with Spartec solution unless required by local health authorities, then rinse with clean, safe water.

Do not mix with soap or anionic detergents.

II. As A Disinfectant

A. Medical and Veterinary Facilities, e.g. hard surfaces such as walls, floors and counters

1. Remove heavy soil prior to application.
2. Wipe or mop using Spartec solution containing 1½ fl. oz. per gallon water (1200 ppm active agent). Do not rinse.

B. Non-Medical Applications, e.g. shower rooms, rest rooms, floors and walls

1. Remove heavy soil prior to application.
2. Wipe or mop using Spartec solution containing 1 fl. oz. per 2 gallons water (400 ppm active agent). Do not rinse.

III. Mildew and Mold Control

Tile, Metal or Cement Surfaces

After cleaning, apply Spartec solution containing 1½ fl. oz. per gallon water (1200 ppm active agent) to moisten or dampen surfaces. Repeat every 14 days.

IV. As a Deodorant

Refrigerators, Cold Storage Rooms, Drains and Garbage Containers. After cleaning, rinse thoroughly and use Spartec solution containing 1 fl. oz. per 2 gals. of water (400 ppm active agent).

Do not rinse after sanitizing with Spartec solution unless required by local health authorities, then rinse with clean, safe water.

Do not mix with soap or anionic detergents.

Spartec fulfills the criteria of Appendix F, of the Grade "A" Pasteurized Milk Ordinance 1965 Recommendations of the USPHS in water up to 550 ppm (32 grains per gallon) of hardness calculated as CaCO₃ when tested by the AOAC Germicidal and Detergent Sanitizers—Official Method.



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FI-21 Rev.

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Technical Service Bulletin

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 662-7
 Sept 11, 1974
 UNDER THE FEDERAL INSECTICIDE
 FUNGICIDE AND RODENTICIDE ACT
 FOR ECONOMIC POISON REGISTER-
 ED UNDER NO.

SPARTEC®

EPA Reg. No. 662-7

A liquid "cationic" quaternary ammonium compound sanitizer.

PURPOSE AND USE

For sanitizing, disinfecting, and deodorizing all types of hard surfaces:

Food Processing Equipment	Hospitals
Food Storage Areas	Institutions
Garbage Areas and Cans	Motels and Hotels
Food Service Areas	Restaurants
Dairy Processing Equipment	Schools
Refrigerated Storage Rooms	Rest Rooms
Poultry Plants	Shower Rooms
Glassware and Dishes	Bars and Taverns

ADVANTAGES OF WYANDOTTE SPARTEC

1. Odorless - clear solutions.
2. Safe on wood, paint, plastic, floor tile and metal surfaces.
3. Wyandotte SPARTEC is stable to heat and will not vaporize out of hot solutions.
4. Wyandotte SPARTEC has long term storage capabilities.
5. Wyandotte SPARTEC is excellent for sanitizing and deodorizing.
6. Disinfecting action kills most bacteria, yeast and pathogenic fungi.
7. Destroys mold and mildew. Prevents regrowth up to 14 days on hard surfaces.

EFFECTIVENESS

Wyandotte SPARTEC fulfills the criteria of Appendix F, of the Grade "A" Pasteurized Milk Ordinance 1965 Recommendations of the U. S. Public Health Service in waters up to 550 ppm (32 grains) of hardness calculated as CaCO₃ when tested by the AOAC Germicidal and Detergent Sanitizers - Official Method.

WHERE TO USE WYANDOTTE SPARTEC**I. As A Sanitizer****A. Glasses - Dishes - Utensils**

For sanitizing drinking glasses and eating utensils in restaurants, institutions, bars and taverns. Use SPARTEC at 1 fluid oz. (2 Tablespoons) for each 4 gallons of water, at 200 ppm.

Recommended procedure for 3 compartment sink.

- (1) Scrape and preflush all articles to be washed.
- (2) First compartment - Wash first in clean warm water, using the recommended Wyandotte cleaner.
- (3) Second compartment - Rinse in clean running water.
- (4) Third compartment - Sanitize by immersion in Wyandotte SPARTEC. Use 1 fluid oz. (2 Tablespoons) for each 4 gallons of water (200 ppm active agent). Test periodically with quaternary tester. When solution depreciates below 200 ppm, discard.
- (5) Air dry on clean drain board.

B. Dairy - Beverage - Food Processing Equipment

For sanitizing processing equipment and parts used in dairies, beverage and food plants.

- (1) Flush equipment with clean water immediately after use.
- (2) Wash with suitable cleaning product.
- (3) Rinse with clean water.
- (4) Air dry - protect from dust and dirt.
- (5) Sanitize just before reuse by immersion or circulation. Use Wyandotte SPARTEC at 1 fluid oz. for each 4 gallons of water (200 ppm active agent). Test periodically with quaternary tester. When solution depreciates below 200 ppm, discard.

C. Non-Food Contact Surfaces

For spray method - use 400 ppm SPARTEC solution (1 fluid oz. per 2 gallons of water).

- (1) Clean surface immediately after use.
- (2) Sanitize by spraying with SPARTEC solution containing 1 fluid oz. per 2 gallons water (400 ppm active agent).

II. As A Disinfectant**A. Medical and Veterinary Facilities, e.g. Hard Surfaces
Such as Walls, Floors and Counters**

- (1) Remove heavy soil prior to application.
- (2) Wipe or mop using SPARTEC solution containing 1-1/2 fluid oz. per gallon water (1200 ppm active agent).
Do not rinse.

**B. Non-Medical Applications, e.g. Shower Rooms, Rest Rooms,
Floors and Walls**

- (1) Remove heavy soil prior to application.
- (2) Wipe or mop using SPARTEC solution containing 1 fluid oz. per 2 gallons water (400 ppm active agent).
Do not rinse.

III. Mildew and Mold Control

To control mildew and mold growth on hard surfaces such as tile walls and painted surfaces in cold storage areas and processing rooms.

After cleaning, dampen or wet surface using SPARTEC at 1-1/2 oz. per gallon of water (1200 ppm active agent). Repeat treatment every 14 days until condition is under control.

IV. As A Deodorant

For refrigerators, cold storage rooms, drains and garbage containers.

After cleaning, apply Spartec solution containing 1-1/2 oz. per gal. of water (1200 ppm active agent) to moistened or dampened surfaces. Repeat treatment every 14 days until condition is under control.

Do not rinse after sanitizing with SPARTEC solution unless required by local health authorities, then rinse with clean, safe water.

Do not mix SPARTEC with soap or anionic detergents.

Dilution Instructions

<u>ppm</u>	<u>ratio</u>	<u>oz./U.S. Gal.</u>	<u>Metric Equivalents</u>
100	1/1000	1/8 oz./gal.	1 ml/L
200	1/500	1/4 oz./gal.	2 ml/L
400	1/250	1/2 oz./gal.	4 ml/L
1200	1/85	1-1/2 oz./gal.	12 ml/L

TESTING PROCEDURES

Test SPARTEC with the Wyandotte Quaternary Test Kit (Cat. No. K00-0002).

This test kit is colormetric and gives results in the higher ranges - 100 ppm, 200 ppm and 400 ppm.

A modification of the quaternary test using this test kit has been developed which gives accurate results in the lower ranges using the following procedure:

1. To a 6 cc sample, add about 3 or 4 cc of methylene chloride and shake the sample. (The methylene chloride will settle to the bottom of the sample since it is heavier than water.)
2. Add Reagent drop by drop shaking the sample. At first, the methylene chloride layer will have a deep blue color. Add Reagent until color turns to green, similar to the green for 100 ppm as shown on the test kit cover label. When the green endpoint is passed, the color becomes a sort of brownish shade.
3. Multiply number of drops by 7 which equals the ppm of quaternary in the sample.

PHYSICAL PROPERTIES

1. Wyandotte SPARTEC is an odorless, faintly straw-colored, clear water solution of a quaternary ammonium compound.
2. SPARTEC will freeze. Although it may not freeze solid, it may cause enough pressure to break containers. Keep from freezing. Upon thawing, SPARTEC returns to its original condition with no harm to its activity.

CHEMICAL PROPERTIES

Active Ingredients:

n-Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆)-dimethyl benzyl ammonium chlorides	10.0%
Ethyl Alcohol	2.5%

Inert Ingredients:

Water	87.5%
	100.0%

PHENOL COEFFICIENT

50 for Salmonella typhosa
66 for Staphylococcus aureus

AOAC Use Dilution

Staphylococcus aureus	1:250
Salmonella choleraesuis	1:250
Pseudomonas aeruginosa	1:85

HANDLING PRECAUTIONS

DANGER - KEEP OUT OF REACH OF CHILDREN

CORROSIVE: Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Protect eyes when handling. Harmful if swallowed. Avoid contamination of food. Avoid breathing spray mist. Rinse empty container thoroughly with water and discard it.

FIRST AID: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before re-use. If swallowed, drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are not available, drink a large quantity of water. Call physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contra-indicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.