

NOV 16 1987

Diversey Wyandotte Corporation
1532 Biddle Avenue
Wyandotte, MI 48192

Attention: Donald F. Garvin, Ph.D.

Gentlemen:

Subject: SPARTEC
EPA Registration No. 875-81
Your Submission Dated October 22, 1986

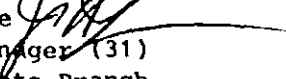
The submission referred to above, submitted in connection with the Label Improvement Program Notice for Antimicrobial Products Used as Food Contact Surface Sanitizers, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling.
 - a. Delete the entire Phenol Coefficient claim on the label.
 - b. Delete the entire Phenol Coefficient on page 5 of the Technical Service Bulletin.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

John H. Lee 
 Product Manager (31)
 Disinfectants Branch
 Registration Division (TS-767C)

Enclosure

16754:I:Lee:L-4:KENCO:10/19/87:10/27/87:rw:vo:bm:jh

CONCURRENCES

SYMBOL	SURNAME	DATE						

Spartec

Quaternary Ammonium Compound - Sanitizer, Disinfectant

For Industry Use Only

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
KEEP OUT OF REACH OF CHILDREN.

DANGER: CAUSES SEVERE
EYE AND SKIN DAMAGE.

Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

SYMPTOM OF PRACTICAL TREATMENT: 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 reuse. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short-acting barbiturate drug.

PHYSICAL AND CHEMICAL HAZARD
Do not use or store near heat or open flame.

EPA Est. 875-CA-2 (8) 875-PA-1
Superscript
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Under the F
Pesticide, an
is recommended.
registered and

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage.

STORAGE - Store in a dry place no lower than 40°F. or higher than 120°F.

CONTAINER DISPOSAL - Do not reuse empty container. Rinse empty container with water. Then offer for recycling, puncture and dispose of in a sanitary land fill or procedures approved by State and local authorities. Containers may be disposed of in a sanitary landfill if allowed by local authorities, by burning, if no smoke.

PESTICIDE DISPOSAL - Pesticide wastes are acutely toxic. Improper disposal of excess pesticide, spray material, or empty containers is a violation of Federal Law. If these wastes cannot be disposed of by the above methods, contact your nearest Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for further instructions.

NET CONTENT



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 gal. 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).

V. Hand and Glove Sanitizing

Food Processing Plants --

Wash hands or gloves with warm soap and water. Rinse with potable water. Prepare a solution containing 1 fl. oz. Spartec in 4 gals. of water providing 200 ppm quaternary. Immerse hands or skin to completely wet skin or surface to above wrist area. Drain and wipe with a single service towel. DO NOT rinse gloves with potable water unless required by regulating authorities. Test sanitizer with a test kit. Discard solution when it becomes dirty or discolored.

VI. Shell Egg Sanitizing

To sanitize previously cleaned shell eggs, spray with a solution of 1 fl. oz. of Spartec per 4 gals. of water providing 200 ppm quaternary. The sanitizer solution should be 100-120°F. Spray eggs until thoroughly wet and allow to drain. Eggs sanitized with this product should only be rinsed with potable water if they are to be broken for immediate use in egg products. Eggs should be reasonably dry before packaging or breaking. Do not reuse solution for egg sanitizing.

Do not mix with soap or anionic detergents.

Spartec fulfills the criteria of the Grade 'A' Pasteurized Milk Ordinance 1978 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.

A liquid "cationic" quaternary ammonium compound sanitizer. ^{as amended for the pesticide}
^{registered under EPA Reg. No.}
875-81

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 |

FEATURES

1. Liquid
2. Non-corrosive
3. Heat Stable
4. Stable Liquid
5. Deodorizer
6. Disinfectant-Sanitizer
7. Residual Mildewstat

BENEFITS

- Easy to prepare use concentrations.
- Safe on all surfaces - wood, paint floor tile and metal.
- Will not lose strength in hot solutions.
- Long shelf-life.
- Eliminates off-odors in use areas.
- Reduces or eliminates most bacteria, yeast and molds when used as directed.
- Destroys mold and mildew. Prevents regrowth up to 14 days on hard surfaces.

REGULATORY STATUS

SPARTEC fulfills the criteria of Appendix F, of the Grade "A" Pasteurized Milk Ordinance 1978 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 A.O.A.C. Germicidal and Detergent Sanitizers - Official Method.

SPARTEC is authorized for use under U.S.D.A. inspection and grading program under Category code letters:

FOOD INDUSTRIES GRO

D2. Sanitizers for all surfaces not always requiring a rinse.

Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not required following use of these compounds on previously-cleaned hard surfaces provided that the surfaces are adequately drained before contact with food so that little or no residue remains which can adulterate or have a deleterious effect on edible products. A potable water rinse is required following use of these compounds under conditions other than those stated above. The compounds must always be used at dilutions and according to applicable directions provided on the EPA registered label.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

1. As a SanitizerA. 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 lbs) 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, or becomes soiled, 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 reuse with SPARTEC solution containing 1 fl oz (2 lbs) per 4 gals water (200 ppm active agent). Test periodically with quaternary tester. When solution depreciates, discard.

C. Non-Food Contact Surfaces

1. Clean surfaces immediately after use.
2. Sanitize by spraying with SPARTEC solution containing 1 fluid ounce per 2 gallons water (400 ppm active agent).
3. Drain and allow to air dry.

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2. 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 fluid ounces 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 ounce per 2 gallons water (400 ppm active agent). Do not rinse.

3. Mildew and Mold Control

Tile, Metal or Cement Surfaces:

After cleaning, apply SPARTEC solution containing 1½ fluid ounces per gallon water (1200 ppm active agent) to moisten or dampen surfaces. Repeat every treatment daily until condition is under control.

After cleaning, dampen or wet surface using SPARTEC at 1½ fluid ounces per gallon of water (1200 ppm active agent). Repeat treatment every 14 days until condition is under control.

4. As a Deodorant

Refrigerators, Cold Storage Rooms, Drains and Garbage Containers:

After cleaning, rinse thoroughly and use SPARTEC solution containing 1 fluid ounce per 2 gallons of water (400 ppm active agent).

5. Hand and Glove Sanitizing

Food Processing Plants:

Wash hands or gloves with warm soap and water. Rinse with potable water. Prepare a solution containing 1 fluid ounce SPARTEC in 4 gallons of water providing 200 ppm quaternary. Immerse hands or skin to completely wet skin or surface to above wrist area. Drain and wipe with a single-service towel. DO NOT rinse gloves with potable water unless required by regulating authorities. Test sanitizer with a test kit. Discard solution when it becomes dirty or discolored.

6. Shell Egg Sanitizing

To sanitize previously cleaned shell eggs, spray with a solution of 1½ fluid ounce of SPARTEC per 4 gallons of water providing 200 ppm quaternary. The sanitizer solution should be 100-120°F. Spray eggs until thoroughly wet and allow to drain. Eggs sanitizing with this product should only be rinsed with potable water if they are to be broken for immediate use in egg products. Eggs should be reasonably dry before packaging or breaking. Do not reuse solution for egg sanitizing.

Do not mix with soap or anionic detergents.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 16 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

875-81

Dilution Instructions

<u>ppm</u>	<u>Ratio</u>	<u>Oz/U.S. Gallon</u>	<u>Metric Equivalents</u>
200	1/500	¼ oz/gal	2 ml/l
400	1/250	½ oz/gal	4 ml/l
1200	1/85	1½ oz/gal	12 ml/l

TESTING PROCEDURES

Test SPARTEC with the Diversey Wyandotte Quaternary Test Kit (Catalog No. 460-753-0-102).

1. Add 10 ml Quaternary Solution to test vial.
2. Add 2-3 drops Bromphenol Blue Indicator.
3. Add 4-5 drops Alkaline Sodium Chloride Solution.
4. Add 5 ml (approximately 6-7 dropperfulls) Ethyl Acetate (FLAMMABLE).
5. Cap vial and mix by inverting 8-10 times. Wait 1-2 minutes for layers to separate. Blue color will appear in top layer.
6. Add 2-3 drops 1.2% Sodium Dodecylbenzene Sulfonate Solution (SDBSS). Cap and mix by inverting. Allow layers to separate. If blue color returns to top layer, add SDBSS drop by drop, mixing sample between drops. When blue color leaves top layer and goes to bottom layer, titration is complete.
7. Calculate ppm as:

$$\text{ppm Quaternary} = F \times \text{No. drops SDBSS Solution}$$
 F factor is on SDBSS label.

For testing high concentrations of quaternary, such as more than 1000 ppm, the 10 ml sample can be reduced to 2.4 ml plus 7.6 ml of water. Test procedure remains the same. 2.4 ml sample can be measured with the marked dropper. This dropper measures 0.6 ml to the mark. 4 droppers will deliver 2.4 ml.

$$\text{ppm Quaternary} = F \times 4.2 \times \text{No. of drops of SDBSS.}$$

PHYSICAL PROPERTIES

1. SPARTEC is an odorless, faintly straw-colored, clear water solution of a quaternary ammonium solution.
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.

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CHEMICAL PROPERTIES

Active Ingredients:

n-Alkyl (50% C₁₄, 40% C₁₂, 10% C₁₆)-
dimethyl benzyl ammonium chlorides 10.0%

Inert Ingredients:

Water 90.0%
100.0%

PHENOL COEFFICIENT

50 for Salmonella typhosa
66 for Staphylococcus aureus

A.O.A.C. Use Dilution

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

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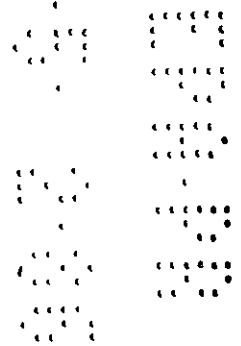
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and rubber gloves when handling. Harmful or fatal if swallowed. Avoid
contamination of food.

STATEMENT OF PRACTICAL TREATMENT: 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 reuse. If
swallowed, drink promptly a large quantity of milk, egg whites, gelatin
solution or if these are not available, drink large quantities of water.
Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of
gastric lavage. Measures against circulatory shock as well as oxygen and
measures to support breathing manually or mechanically may be needed. If
persistent, convulsions may be controlled by the cautious intravenous
injection of a short-acting barbiturate drug.

PHYSICAL AND CHEMICAL HAZARD

Do not use or store near heat or open flame.



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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

STORAGE - Store in a dry place no lower in temperature than 40°F or higher than 120°F.

CONTAINER DISPOSAL - Do not reuse empty container. Triple rinse empty container with water. Then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated or, if allowed by local authorities, by burning. If burned, stay out of smoke.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

