

CENTER PANEL

FOUR FOLD 64
NEUTRAL FRAGRANCE

Disinfectant-Cleaner-Sanitizer-Fungicide
Mildewstat-Virucide*-Deodorizer

Effective in hard water up to 400 ppm hardness
(calculated as CaCO₃) in the presence of 5% serum
contamination

ACCEPTED
with COMMENTS
In EPA Letter Dated:

ACTIVE INGREDIENTS

Octyl decyl dimethyl ammonium chloride	1.650%
Diocetyl dimethyl ammonium chloride	0.825%
Didecyl dimethyl ammonium chloride	0.825%
Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride	2.200%

DEC 13 1962
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

INERT INGREDIENTS

9232-18
94.500%
100.000%

KEEP OUT OF REACH OF CHILDREN

DANGER

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, respiratory depression, and convulsion may be needed.

SEE LEFT PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Registration No.

9232-18

EPA Establishment No.

9232-

NET CONTENTS:

Manufactured by
FEDERAL INTERNATIONAL CHEMICALS
1191 South Wheeling Road
Wheeling, IL 60090

FOR SALE, FOR USE, AND STORAGE BY
MAINTENANCE PERSONNEL ONLY

RIGHT PANEL

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

This product is recommended for use in hospitals, hotels, motels, industrial plants, schools, animal hospitals, and nursing homes. Specific areas for use are floors, walls, restrooms, examination rooms, cages and runways, kitchen and dining areas, laboratories, locker rooms, shower rooms, swimming pool facilities, exercise facilities, and waste receptacles.

It is bactericidal, fungicidal, mildewstatic, and virucidal when used in water up to 400 ppm hardness and in the presence of 5% horse serum contamination.

Proven effective for hospital use by the following tests:

A.O.A.C. Use Dilution Test (at 2 ounces per gallon of water)

<i>Pseudomonas aeruginosa</i>	<i>Enterobacter aerogenes</i>
<i>Staphylococcus aureus</i>	<i>Brevibacterium ammoniagenes</i>
<i>Salmonella choleraesuis</i>	<i>Streptococcus faecalis</i>
<i>Escherichia coli</i>	<i>Shigella dysenteriae</i>
<i>Streptococcus pyogenes</i>	<i>Salmonella typhi</i>
<i>Klebsiella pneumoniae</i>	<i>Serratia marcescens</i>

A.O.A.C. Fungicidal Test (at 2 ounces per gallon of water)

Trichophyton mentagrophytes (athletes' foot)

*Virucidal Performance (at 1 1/4 ounces per gallon of water)

Influenza A/Brazil Virus

DIRECTIONS FOR USE

GENERAL

Solutions should be applied to hard, non-porous surfaces with a cloth, mop, or mechanical spray device in order to thoroughly wet the surfaces. Surfaces must remain wet for the periods of time indicated below.

For heavily soiled areas a preliminary cleaning step is necessary. Prepare a fresh solution daily or when use solution becomes visibly dirty.

SPECIFIC

1. Disinfection: Add 2 ounces of product to 1 gallon of water. Treated surfaces must remain wet for 10 minutes.
2. Sanitizing: To sanitize porous and non-porous, non-food contact surfaces, add 1 ounce of product to 2 3/4 gallons of water. Treated surfaces must remain wet for 60 seconds.
3. Mold and Mildew Control: To inhibit growth, apply a solution of 1 1/4 ounces per gallon of water. Allow solution to dry on surface, and repeat when growth returns.

ACCEPTED
with CONFIDENCE
by EPA

DEC 1961

This is a registered trademark of the manufacturer. It is not to be used in any other product without the permission of the manufacturer. Reg. No. 9232-18

LEFT PANEL

This product was formulated to aid in reducing the cross-contamination in hospitals, schools, institutions, and industry. It has bactericidal, fungicidal, and virucidal properties that make it effective against a broad spectrum of microorganisms both Gram positive and Gram negative. As a one-step disinfectant cleaner, it will deodorize those odors caused by bacterial growth and inhibit the growth of mold and mildew when used as directed.

Precautionary Statements

Hazards to Humans and domestic animals

DANGER

Keep out of reach of children. Corrosive. 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 or absorbed through the skin. Avoid contamination of food.

STORAGE AND DISPOSAL

- Do not contaminate water, food, or feed by storage or disposal.
- Open dumping is prohibited
- Do not reuse empty container

PESTICIDE DISPOSAL

Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill-approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL

Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

GENERAL

Consult Federal, State, or local disposal authorities for approved alternative procedures.

ACCEPTED
with COMMENTS
in EPA Letter 12-13

DEC 13 1981

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

9232-15

PRODUCT INFORMATION

FOUR FOUR 64

FEDERAL INTERNATIONAL CHEMICAL
1191 South Wheeling Road
Wheeling, IL 60090

ACCEPTED

11/13/78

11/13/78

SPECIFICATION FOR QUATERNARY BASED 1:64 CLEANER-DISINFECTANT

DESCRIPTION

A general purpose cleaner-disinfectant and deodorant formulated for routine maintenance that is bactericidal, fungicidal, mildew-static, and virucidal at a single use dilution of 2 ounces per gallon of water with a hardness of up to 40 ppm (calculated as CaCO₃) and in the presence of 5% serum contamination.

MICROBIOLOGICAL PERFORMANCE PROPERTIES

1. The product shall be bactericidal at a use dilution of 1:64 (2 ounces per gallon of water) when tested with 60 carriers against Staphylococcus aureus ATCC #6538 and 60 carriers each against Salmonella choleraesuis ATCC #10708 and Pseudomonas aeruginosa ATCC #15442 according to the Use Dilution Method given in the OFFICIAL METHODS OF ANALYSIS of the A.O.A.C., 13th Edition, Section 4 - Disinfectants.
2. The product shall be fungicidal at a dilution of 1:64 (2 ounces per gallon of water) when tested against Trichophyton mentagrophytes (athletes' foot) ATCC #9533 according to the Fungicidal Test method given in the OFFICIAL METHODS OF ANALYSIS of the A.O.A.C., 13th Edition, Section 4 - Disinfectants.
3. The product shall be virucidal at a dilution of 1:102 (1 1/4 ounces per gallon of water) when tested according to the current EPA accepted protocol against Influenza Virus A/Brazil, 11/78 (H1 N1) E-7 1/8/79.
4. The product shall be bactericidal against the following organisms when tested with 20 carriers according to the Use Dilution Method given in the OFFICIAL METHODS OF ANALYSIS of the A.O.A.C., 13th Edition, Section 4 - Disinfectants.

	<u>ATCC No.</u>		<u>ATCC No</u>
Escherichia coli	11229	Streptococcus pyogenes	12384
Enterobacter aerogenes	13048	Salmonella schottmuelleri	10719
Salmonella typhi	6539	Shigella dysenteriae	9380
Klebsiella pneumoniae	4352	Streptococcus faecalis	11700
Serratia marcescens	274	Brevibacterium ammoniagenes	6971

5. The product shall be fungistatic (mold and mildew control) at 1:102 (1 1/4 ounces per gallon of water) when tested against Aspergillus niger ATCC #6275 according to the method for evaluation of mildew-stats on hard surfaces given in the OFFICIAL METHODS OF ANALYSIS of the A.O.A.C., 13th Edition, Section 4 - Disinfectants.

6. This product shall sanitize at 2 ounces per 5 1/2 gallons of water (150 ppm active quaternary) when tested against Staphylococcus aureus ATCC #6538 and Klebsiella pneumoniae ATCC #4352 according to current EPA protocol for sanitizers on both porous and non-porous surfaces.

7. Two ounces of this product per gallon of water shall yield 850 ppm active quaternary.

8. All disinfectant claims must be registered in conformance with the current regulations of the U.S. Environmental Protection Agency and the EPA Registration number must appear on all container labels.

ACCEPTED
COMMENTS
EPA Label Date:

DEC 13 1982

PHYSICAL PROPERTIES

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

1. The pH of the product concentrate shall be 12.4.
2. The pH of the product diluted with water at 1:64 shall be 11.0.
3. The product shall remain chemically stable and germicidal to fulfill label claims when stored under normal storage conditions for a minimum of 1 year.
4. The nonionic detergent ingredient must be classified a biodegradable in conformance with currently acceptable test procedures.
5. The product shall be phosphate-free.
6. Detergency of the product in use solution shall be satisfactory in routine maintenance and equally effective in hard, soft, hot or cold water to lift, emulsify and hold soil in suspension.
7. The product shall impart a significant degree of antistatic properties when applied to plastic or fiber surfaces in use solution.
8. The product shall not be harmful to painted or varnished surfaces, fabrics, terrazzo or resilient flooring in use solution. Further, the use solution shall not be deleterious to wax or synthetic protective floor polishes.
9. The freeze/thaw stability of the undiluted product must display no separation through 3 cycles.
10. The product in use solution shall be odorless or display a pleasant mint fragrance.
11. The product shall display true deodorant properties against odors arising from surfaces contaminated by organic putrefaction such as vomit, urine, feces and putrifying food.
12. The product shall not contain arsenicals, formaldehydes, iodines, mercury compounds, phenols, abrasives or free acid.

9232-18

TYPICAL SPECIFICATIONS

Weight per gallon	8.42 lbs
pH Undiluted	12.4
pH Diluted 1:64	11.0
Viscosity	Free flowing liquid
Color	Pink
Odor	None or citrus
Foam	Moderate

ACCEPTED
with COMMENTS
in EPA Letter Dated:

DEC 13 1982

Under the Federal Insecticide,
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9232-18

- c. It has been noted that the EPA Establishment No. will be added at the time of printing.
- d. Correct the spelling of the words "Staphilococcus aureus" (middle right panel).
- e. Revise the statement (middle right panel):

(athletes' foot)

to read:

(athletes' foot fungus.)

- f. Revise the statement (middle left panel):

Harmful or fatal if swallowed or absorbed
through the skin

to read:

Harmful if swallowed.

- g. Add the statement (Virucidal Performance section):

on inanimate environmental surfaces.

- h. Revise the statement (middle right panel):

"...a preliminary cleaning step is necessary."

to read:

"...a preliminary cleaning step is required."

3. Make the following revisions to the product information bulletin before you release the product for shipment.

- a. Revise the statement (page 1, item #2):

(athletes foot)

to read:

(athletes foot fungus)

- b. Revise the statement (page 2, item #6):

"This product shall sanitize at..."

to read:

This product shall sanitize (non-food contact surfaces) st..."

- c. Revise the statement (page 1, item #5):

"...according to the method for evaluation of mildew stats on hard surfaces given in the other methods of Analysis of the A.O.A.C. 13th Edition, Section 4 Disinfectants."

to read:

"...according to EPA test methods for evaluation of mildew stats on hard surfaces."

- d. Revise the statement (page 2, item #10):

"...display a pleasant mint fragrance."

to read:

"...display a pleasant citrus fragrance."

- e. Delete the statement (page 2, item #7, physical properties):

"...or fiber surfaces..."

this product is only for use on hard, nonporous surfaces.

- f. Delete the statement: (page 2, item #8, physical properties):

"...fabrics..."

This product is only for use on hard, nonporous surfaces.

4. The confirmatory data submitted for the above referenced product is acceptable and has been assigned the Accession Number 248672.

5. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

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

Enclosures