

CHEMICAL PROPERTIES

ACTIVE INGREDIENTS:

Dialkyl (85% C <sub>18</sub> , 15% C <sub>16</sub> ) dimethyl ammonium chloride . . .	26.40%
Alkyl (50% C <sub>14</sub> , 40% C <sub>12</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chloride . . . . .	2.64%
5-Chloro-2-(2,4-dichlorophenoxy) phenol . . . . .	1.25%
INERT INGREDIENTS . . . . .	<u>69.71%</u>
	100.00%

SAFETY PRECAUTIONS

DANGER: KEEP OUT OF REACH OF CHILDREN.

Causes eye damage and skin irritation. Do not get in eyes or on skin. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food. Not intended for use as a terminal disinfectant. Do not reuse empty drum. Return to drum conditioner or destroy by perforating or crushing and burying in a safe place.

First Aid: In case of contact, flush with plenty of water. For eyes, get medical attention. If swallowed, drink milk, egg white or gelatin or, if these are not available, drink large quantities of water. Call a physician.

ACCEPTED  
 JUL 1 1974  
 UNDER THE FEDERAL INSECTICIDE  
 FUNGICIDE AND RODENTICIDE ACT  
 FOR ECONOMIC POISON REGISTRATION  
 ED UNDER NO. 112-522

# Wyandotte™ PREVIEW PLUS<sup>®</sup> Phenolic Germicidal Detergent

## USE DIRECTIONS

Always wear rubber gloves. Wet surface thoroughly with recommended use dilution.  
 For general cleaning and disinfection of hard surfaces such as walls, floors, furniture, carts, examining tables and in operating rooms; remove gross filth and wash or mop surface with one oz./gal. (0.8% by vol.) of Preview Plus, in hot or cold water. No rinsing is necessary except for food contact surfaces. Use only a laundered or disposable cloth or a cellulose sponge used for no other purpose.  
 For hand spraying, fill Wyandotte Spray Applicator with a solution of Preview Plus (one oz./gal.) and spray area to be cleaned and disinfected.  
 For flooding and vacuum pick-up, flood the floor with a one oz./gal. solution of Preview Plus. Remove with a wet vacuum pick-up machine.

To control mildew and musty odors on tile, painted wood or metal surfaces, first brush-clean the surface with a solution of Preview Plus (one oz./gal.). Rinse and allow to dry. Spray or mop surface until damp with the Preview Plus solution (one oz./gal.). Repeat treatment as necessary to maintain control. The same steps are necessary on unpainted wood surfaces except the spray/mop solution is two oz./gal. and repeat treatment as necessary. Always wear rubber gloves when hands will be exposed to the solution.  
 For use in food preparation or food processing areas, remove all food and food packaging material before using Preview Plus. Food contacting surfaces must be thoroughly scrubbed with detergent and rinsed with potable water prior to reuse.  
 Preview Plus may be used in medicinal, lodging, food processing and school facilities.

<b>ACTIVE INGREDIENTS</b>	
Monoethanolamine dodecyl benzene sulfonate	6.97%
Sodium o-phenylphenate	6.11%
Isopropanol	3.97%
Sodium 4-chloro-2-cyclopentylphenate	3.20%
Tetrasodium ethylenediamine tetraacetate	2.46%
Sodium p-tertiary-amyphenate	2.28%
<b>INERT INGREDIENTS*</b>	<b>75.01%</b>
	<b>100.00%</b>

\*Includes cleaning and soil-suspending agents,  
 AOAC PHENOL COEFFICIENT TEST

Staphylococcus aureus	17
Salmonella typhosa	14
<b>GERMICIDAL DATA</b>	
AOAC USE-DILUTION TEST	
Salmonella choleraesuis	1:128
Staphylococcus aureus	1:128
Pseudomonas aeruginosa	1:128
AOAC TUBERCULOCIDAL TEST	
Mycobacterium tuberculosis var bovis BCG	1:128
AOAC FUNGICIDAL TEST	
Trichophyton mentagrophytes	1:128

## DANGER

### KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Protect skin and eyes when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food.  
 Do not use, pour, spill or store near heat or open flame. Rinse empty container thoroughly with water and discard it.

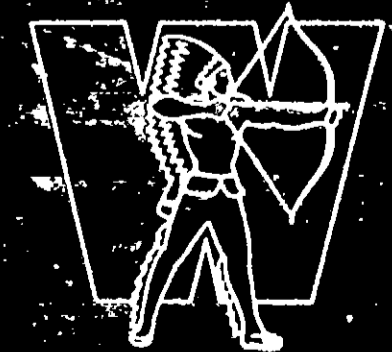
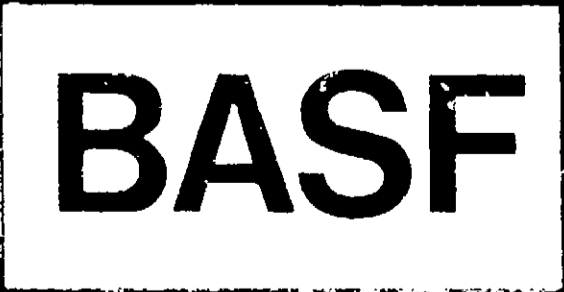
**FIRST AID.** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician immediately. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid mineral oil or alcohol and 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.

FOR INDUSTRY USE ONLY

EPA Reg. No. 662-52

# CONTENTS 5 GALLONS



**BASF Wyandotte Corporation**  
 Chemical Specialties Division  
 Wyandotte, Michigan 48192

Freight Classification: Cleaning Compound, Liquid

**BASF**

Wyandotte

**PREVIEW PLUS****Phenolic Germicidal Detergent**

Preview Plus combines a broad spectrum disinfectant and detergent in a single product. Developed for cleaning, disinfecting, deodorizing and controlling mildew on hard surfaces, Preview Plus is a mixture of three phenolic germicides formulated with detergents and water conditioning agents. It is germicidal, fungicidal and tuberculocidal at a use-dilution of one oz. per gallon of water when tested by the AOAC laboratory methods against a number of organisms shown on the back of this sheet. It kills mold and mildew on contact and prevents growth and odor when used on such surfaces as painted or unpainted wood, tile, metal and glass.

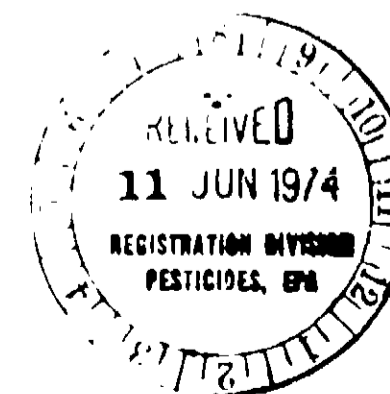
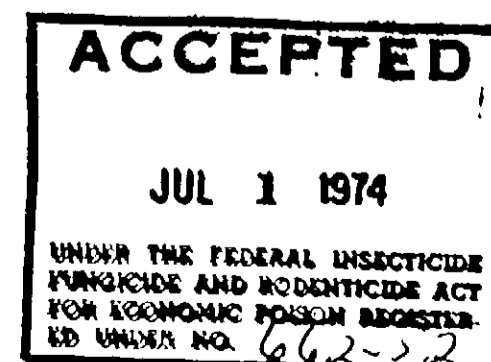
Preview Plus is intended for use on floors of all kinds: hard, resilient and conductive; for walls, furniture, fixtures, carts, examining tables, and in operating rooms.

A few of the places where Preview Plus may be used to advantage include:

Hospitals	Laboratories	Garbage Cans
Nursing Homes	Rest Rooms	Refuse Areas
Hotels and Motels	Shower Rooms	Horse Barns
Veterinary Clinics	Locker Rooms	Kennels and Pet
Meat and Poultry Processing Areas		Animal Cages

**BENEFITS**

- Provides effective cleaning and disinfecting even in hard water (up to 30 grains hardness)
- Requires no rinsing, except on food contact surfaces
- Does not cause soap film on treated surfaces
- Does not reduce conductivity of floors
- Deodorizes as it cleans by destroying the cause of bacterial and mildew odors



**USE DIRECTIONS**

Always wear rubber gloves. Wet surface thoroughly with recommended use dilution.

For general cleaning and disinfection of hard surfaces, such as walls, floors, furniture, carts, examining tables and in operating rooms; remove gross filth and wash or mop surface with one oz./gal. (0.8% by vol.) solution of Preview Plus, in hot or cold water. No rinsing is necessary except for food contact surfaces. Use only a laundered or disposable cloth or a cellulose sponge used for no other purpose.

For hand spraying, fill Wyandotte Spray Applicator with a solution of Preview Plus (one oz./gal.) and spray area to be cleaned and disinfected. Wear rubber gloves.

For flooding and vacuum pick-up, flood the floor with a one oz./gal. solution of Preview Plus. Remove with a wet vacuum pick-up machine.

To control mildew and musty odors on tile, painted wood or metal surfaces, first brush-clean the surface with a solution of Preview Plus (one oz./gal.). Rinse and allow to dry. Spray or mop surface until damp with the Preview Plus solution (one oz./gal.). Repeat treatment as necessary to maintain control. The same steps are necessary on unpainted wood surfaces except the spray/mop solution is two oz./gal. and repeat treatment as necessary. Always wear rubber gloves when hands will be exposed to the solution.

For use in food preparation or food processing areas, remove all food and food packaging material before using Preview Plus. Food contacting surfaces must be thoroughly scrubbed with detergent and rinsed with potable water prior to reuse.

Preview Plus may be used in medicinal, lodging, food processing and school facilities.

**GERMICIDAL DATA—AOAC Use-Dilution Test**

BREVIBACTERIUM AMMONIAGENES . . . . .	1:128	ENTEROBACTER AEROGENES . . . . .	1:128
ESCHERICHIA COLI . . . . .	1:128	KLEBSIELLA PNEUMONIAE . . . . .	1:128
PROTEUS VULGARIS . . . . .	1:128	PSEUDOMONAS AERUGINOSA . . . . .	1:128
SALMONELLA CHOLERAESUIS . . . . .	1:128	SALMONELLA TYPHOSA . . . . .	1:128
STAPHYLOCOCCUS AUREUS . . . . .	1:128	STREPTOCOCCUS FAECALIS . . . . .	1:128
STREPTOCOCCUS PYROGENES . . . . .	1:128	CANDIDA ALBICANS . . . . .	1:128
SACCHROMYCETES CEREVISIAE . . . . .	1:128	RHODOTORULA RUBRA . . . . .	1:128

**TUBERCULOCIDAL ACTIVITY**—The tuberculocidal activity of Preview Plus, at a dilution of one oz. per gallon of distilled water, has been confirmed by independent laboratory tests in the Official AOAC Confirmation in Vitro Test for Tuberculocidal Activity, 11th ed. 1970, employing Mycobacterium tuberculosis var. bovis BCG in three laboratory media.

**FUNGICIDAL ACTIVITY**—The fungicidal efficiency of Preview Plus (diluted to one oz. per gallon of 30 grain hardness water) was determined using the Official AOAC Fungicidal Test Method, employing Trichophyton mentagrophytes as the test organism.

Detailed microbiology data available upon request.

**DANGER—KEEP OUT OF REACH OF CHILDREN.**

Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Protect skin and eyes when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food.

Do not use, pour, spill or store near heat or open flame. 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 immediately. 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 mineral oil or alcohol and 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.



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**Technical Service Bulletin**

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WYANDOTTE PREVIEW® PLUS

Phenolic Germicidal Detergent

EPA Reg. No. 662-52



PURPOSE AND USE

For cleaning, disinfecting, deodorizing and mildew control on hard surfaces such as floors, walls and woodwork in:

Hospitals	Rest Rooms
Nursing Homes	Shower and Locker Rooms
Operating Rooms	Garbage Cans and Refuse Areas
Hotels and Motels	Meat and Poultry Processing Areas
Verterinary Clinics	Kennels and Pet Animal Cages
Laboratories	Horse Barns

ADVANTAGES OF PREVIEW PLUS

1. Preview Plus is a broad spectrum disinfectant and detergent in a single product. No rinsing is required after using Preview Plus except on food contact surfaces.
2. Provides effective cleaning and disinfection in water up to 30 grain hardness. Does not cause soap film on treated surfaces.
3. Preview Plus does not reduce conductivity of floors.
4. Will not harm or damage most woods, painted surfaces, plastic, metals, and floor finishes.
5. Deodorizes as it cleans. The disinfecting action of Preview Plus destroys the cause of bacterial and mildew odors on most treated surfaces.

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DISINFECTING ACTION

Preview Plus is a mixture of three (3) phenolic germicides formulated with detergents and water conditioning agents to provide broad spectrum disinfecting action and optimum cleaning of hard surfaces. Preview Plus is germicidal, fungicidal and tuberculocidal at a use dilution of one ounce per gallon (0.8% by volume) of water when tested by the Official AOAC Laboratory Methods against the organisms shown in the following tables.

AOAC USE DILUTION TEST - 11th Edition (1970)Preview Plus at one ounce per gallon in 30 grain hard water

<u>BACTERIA</u>	<u>Phenol Resistance Of Organism</u>	<u>Number of Tests Showing Complete DESTRUCTION Of Organisms (*)</u>
<u>Brevibacterium ammoniagenes</u> (ATCC #6871)	1:110	10/10
<u>Enterobacter aerogenes</u> (ATCC #13048)	1:85	10/10
<u>Escherichia coli</u> (ATCC #11229)	1:90	10/10
<u>Klebsiella pneumoniae</u> (ATCC #4352)	1:85	10/10
<u>Proteus vulgaris</u> (ATCC #8427)	1:85	10/10
<u>Pseudomonas aeruginosa</u> (ATCC #15442)	1:80	10/10
<u>Salmonella choleraesuis</u> (ATCC #10708)	1:90	10/10
<u>Salmonella typhosa</u> (ATCC #6539)	1:100	10/10
<u>Staphylococcus aureus</u> (ATCC #6538)	1:60	10/10
<u>Streptococcus faecalis</u> (ATCC #14428)	1:70	10/10
<u>Streptococcus pyrogenes</u> (Group A)	1:85	10/10
<u>YEASTS</u>		
<u>Candida albicans</u>	1:70	10/10
<u>Rhodotorula rubra</u> (ATCC #9449)	1:80	10/10
<u>Sacchromyces cerevisiae</u>	1:95	10/10

\*Laboratory testing has been repeated to statistically verify results and comply with current government regulations. Additional laboratory results are available upon written request.

AOAC FUNGICIDAL TEST - 11th Edition (1970)Preview Plus at one ounce per gallon in 30 grain hard water

<u>PATHOGENIC FUNGI</u>	<u>Phenol Resistance</u>	<u>Time Required To Destroy All Organisms</u>		
		5 min.	10 min.	15 min.
<u>Trichophyton mentagrophytes</u> (ATCC #9533) (Athletes foot organism)	1:45	--	--	--
<u>MILDEW MOLDS</u>				
<u>Aspergillus niger</u> (ATCC #6275)	1:70	+	--	--
<u>Chaetomium globosum</u> (ATCC #6205)	1:70	+	--	--
<u>Penicillium glaucum</u> (USDA Strain)	1:70	--	--	--

NOTE: + = Growth of organism  
 -- = No growth of organism

AOAC PHENOL COEFFICIENT TEST, 11th Edition (1970)

<u>ORGANISM</u>	<u>Phenol Coefficient</u>
<u>Salmonella typhosa</u> (ATCC #6539)	14
<u>Staphylococcus aureus</u> (ATCC #6538)	17

TUBERCULOCIDAL ACTIVITY

The tuberculocidal activity of Preview Plus when diluted one ounce per gallon (0.8% by volume) in distilled water has been verified by independent laboratory tests by the Official AOAC Tuberculocidal Test Method, 11th Edition, 1970, employing Mycobacterium tuberculosis var. bovis BCG in three laboratory media. Detailed microbiology data is available upon request.

MILDEW CONTROL

Preview Plus kills mold and mildew on contact and prevents growth and odor on hard surfaces such as painted wood, tile, metal and glass.



Preview Plus prevents mildew and musty odors on unpainted wood in damp areas. See USE DIRECTIONS for specific treatment. Preview Plus is not recommended for control of rot or decay of unprotected wood in contact with soil.

#### CONTROL OF BACTERIA IN MOP WATER

Some public health authorities have suggested that the effectiveness of a disinfectant solution should be evaluated by an in-use method such as determining the number of microorganisms surviving in mop water. Duplicate one-half sections of a high traffic hallway (400 sq. feet area) were mopped with a solution of one ounce per gallon (0.8% by volume) of Preview Plus and a control detergent formula containing all the components except antimicrobial agents in Preview Plus. The results of bacteriological tests on the mop water are shown below:

#### ORGANISM COUNTS IN MOP WATER

(Numbers denote organisms per ml of water after neutralization of germicides)

	<u>Water Before Mopping</u>		<u>Water Immediately After Mopping</u>	
	<u>Bacteria</u>	<u>Mold</u>	<u>Bacteria</u>	<u>Mold</u>
Detergent Control	None	None	29,000,000	1,000,000
Preview Plus (1 oz./gal.) (0.8% by volume)	None	None	250	39

#### WATER HARDNESS

Preview Plus contains no soap to form hard water scum. It is formulated for optimum disinfecting action in water containing up to 30 grain hardness without reduction of antimicrobial activity. Preview Plus diluted one ounce per gallon (0.8% by volume) in distilled or hard water gives slightly hazy solutions.

#### EFFECT ON CONDUCTIVE FLOORING

Preview Plus does not affect conductive floors. Duplicate test panels of conductive floor covering were flooded with a solution of one ounce per gallon (0.8% by volume) Preview Plus and a control solution of distilled water and allowed to dry without rinsing for 50 consecutive applications. No significant change in the resistance of the panels was detected when the current flow was measured daily with a Biddle Conductivity Tester. Conductivity measurements and test specifications conform to the standards of the National Fire Protection Association.

### CORROSION AND EFFECT ON FLOOR FINISHES

Preview Plus diluted one ounce per gallon (0.8% by volume) will not harm or damage most woods, painted surfaces, plastics, porcelain and hard surface floor coverings. Solutions of Preview Plus show about the same corrosion on metals as does water.

Mopping with a one ounce per gallon (0.8% by volume) solution of Preview Plus will not strip or affect the slip resistance of BASF Wyandotte floor finishes. Concentrated product or solutions stronger than one ounce per gallon (0.8% by volume) and abrasive action may strip finishes. The degree of effect depends on the application, age and condition of the specific finish.

### RESIDUAL ACTIVITY

The phenolic germicides in Preview Plus are non-volatile and leave a residual film on treated surfaces. The antimicrobial effectiveness of such residual films can be demonstrated when the treated surfaces are rewet. However, in actual practice, soil loads and moisture may limit the effectiveness of such residues on micro-organisms deposited on the surface. BASF Wyandotte recommends that residual treatments with Preview Plus be used only for control of odor and mildew. Routine disinfection and cleaning should be used on any hard surface where contamination is suspected.

### USE DIRECTIONS

#### General Cleaning and Disinfection of Hard Surfaces Such as Walls, Floors, Ceilings, Furniture, Carts, Examining Tables and Operation Rooms

Preview Plus may be used in medicinal, lodging, food processing and school facilities.

Rubber gloves are recommended for hand washing surfaces. Remove gross filth and wash or mop surfaces with one ounce per gallon (0.8% by volume) solution of Preview Plus in either hot or cold water. No rinse is necessary except on food contact surfaces.

#### Mildew Control - Tile, Painted Wood or Metal Surfaces

1. Clean surface by brushing with one ounce per gallon (0.8% by volume) of Preview Plus to kill and remove mildew growth.
2. Rinse and allow to dry.
3. Spray or mop surface until damp with one ounce per gallon (0.8% by volume) Preview Plus.
4. Repeat treatment as necessary to maintain control.

Control of Mildew and Musty Odor - Unpainted Wood Surfaces

1. Clean surface by brushing with one ounce per gallon (0.8% by volume) solution of Preview Plus.
2. Rinse and allow to dry.
3. Spray or mop surface with a solution containing two ounces of Preview Plus per gallon of water (1.6% by volume).
4. Repeat treatment as necessary.

Food Processing and Food Preparation Areas**Meat and Poultry Processing Areas Such As Walls, Ceilings and Floors:**

1. Remove all food and packaging material from room and protect all food contact surfaces from contamination.
2. Remove gross filth from heavily soiled surfaces.
3. For cleaning and disinfecting, use a solution containing one ounce of Preview Plus per gallon (0.8% by volume) of water.
4. Treated food contact surfaces must be thoroughly scrubbed with detergent and rinsed with potable water prior to reuse.

USE DILUTIONS FOR PREVIEW PLUS

<u>Application</u>	<u>1 Gallon Water</u>	<u>5 Gallons Water</u>	<u>% by Volume</u>
Disinfecting & Cleaning	1 oz.	5 ozs.	0.8
Spray Disinfection	1 oz.	5 ozs.	0.8
Mildew Control (Tile, Painted Wood or metal Surfaces)	1 oz.	5 ozs.	0.8
Mildew Control & Musty Odor (Unpainted Wood)	2 oz.	10 oz.s	1.6

GENERAL APPLICATION TECHNIQUESHand Cleaning

Use one ounce of Preview Plus per gallon of water (0.8% by volume). Prepare in a clean container, wipe surface to be cleaned, using only a laundered or disposable cloth, or cellulose sponge used for no other purpose. Wear rubber gloves.

Spray Injector

Use a Wyandotte Spray Injector, Model 244 "A". Set the adjustment screw on the spray injector for the desired concentration. Spray area to be cleaned and disinfected with Preview Plus solution. Wear rubber gloves.

Mopping

For general mopping, use one ounce per gallon (0.8% by volume) solution of Preview Plus.

A recommended mopping technique involves the use of two pails, both containing the Preview Plus solution. A fresh laundered or new mop is dipped and wrung out in the first pail and a section of the floor is mopped. Then the soiled mop is dipped in the second pail where it is rinsed and wrung out. Rewet mop in the first pail and repeat mopping procedure on another section of the floor. This procedure helps to prevent redeposition of soil on the floor. Change solution in both pails when soil is noticeable in the first pail.

Flooding and Vacuum Pick-Up

Flood floor with one oz./gal. (0.8% by volume) of Preview Plus solution. Remove solution with a wet vacuum pick-up machine.

CHEMICAL AND PHYSICAL PROPERTIES OF PREVIEW PLUS

A foaming liquid phenolic detergent disinfectant with a pleasant odor.

Color . . . . .	light brown to reddish purple
pH concentrate . . . . .	12.3
pH (1 oz./gal.) . . . . . (0.8% by volume)	10.2
Freezing point . . . . .	16° F. (-9° C.)
Flash Point (TAG Closed Cup) . . . . .	122° F. (50° C.)
Specific Gravity . . . . .	1.065
Lbs. per gallon . . . . .	8.87
Kg/Liter . . . . .	1.065

Cold Stability . . . Prolonged exposure to temperatures less than 20°F. (-6.6°C.) may result in a portion of detergent content separating to bottom of container. Warm to room temperature and mix product to restore to its original state. There is no change in germicidal or cleaning capacity.

Detailed toxicology data available on request.

ACTIVE INGREDIENTS

Monoethanolamine dodecyl benzene sulfonate . . . . .	6.97%
Sodium o-phenylphenate . . . . .	6.11%
Isopropanol. . . . .	3.97%
Sodium 4-chloro-2-cyclopentylphenate . . . . .	3.20%
Tetrasodium ethylenediamine tetraacetate . . . . .	2.46%
Sodium p-tertiary-amylphenate . . . . .	<u>2.28%</u>
	24.99%

INERT INGREDIENTS\* . . . . . 75.01%

\*(includes cleaning and soil suspending agents)

TOTAL 100.00%

SAFETY PRECAUTIONS AND FIRST AID

- A. Storage: Do not use, pour, spill or store near heat or open flame. Store between 20° - 110° F. in a dry clean area. Rinse empty container thoroughly with water and discard.
- B. Protective Clothing: Wear safety glasses, rubber gloves, and rubber apron.
- C. Fire Hazard: At use concentrations, it is nonflammable. Concentrated material will not burn. Flash point (TAG Closed Cup) is 122° F. (50° C.).
- D. Accidental Spillage: Remove clothing and shower. Launder clothing before reuse. Area should be hosed down with ample amount of water and flushed to the sewage system unless prohibited by local regulations.