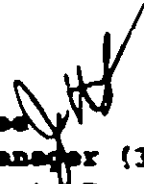


3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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.

Sincerely yours,

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

Enclosure

RD-DIS:JOB-91261:Lee:RD-85/10;EK:Kendrick:898-1270:4/5/85:Del.4/16/85

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# Huntington

## Q-CIDE

### GERMICIDAL DETERGENT

GERMICIDE • DEODORIZER • FUNGICIDE • VIRUCIDE • DETERGENT

Q-Cide is a concentrated, multi-purpose germicidal detergent effective on hard surfaces up to 400 ppm hard water (calculated as CaCO<sub>3</sub>) in the presence of 5% organic matter. Q-Cide is a powerful germicide and deodorizer, (99.9%), and disinfectant.

**Sanitized:** Passes A.O.A.C. Sanitized Test (Bacterial Test) Method 26 Surface, 5.0 micrograms, P<sub>1</sub> concentration in 400 ppm hard water, 1:120 (1 qt / 1 gallon) in the presence of 5% organic matter, 10 minutes at 20°C.

**Fungicidal:** Passes A.O.A.C. Fungicide Test (Fungal Test) Method 26 Surface, 5.0 micrograms, P<sub>1</sub> concentration in 400 ppm hard water, 1:120 in the presence of 5% organic matter, 10 minutes at 20°C.

**Virucidal:** Passes Virology Quantitation Test (Virus Test) Method 26 Surface, 5.0 micrograms, P<sub>1</sub> concentration in 400 ppm hard water, 1:120 (1 qt / 1 gallon) in the presence of 5% organic matter, 10 minutes at 20°C.

RELATIVE: 1:120

#### DIRECTIONS FOR USE

1 ounce per gallon

#### GENERAL CLASSIFICATION

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

#### FOR DISINFECTING

**USES:** Floors, walls, floor surfaces, painted surfaces, exterior hard surfaces, empty tubs, -a- bathrooms, showers, and sanitary fixtures. For disinfection use only such as in hospitals and nursing homes, schools and colleges, medical and dental offices, and veterinary clinics.

**APPLICATION:** Use 1 ounce of Q-Cide per gallon of water for a minimum contact time of 10 minutes in a single application. For disinfecting heavily soiled areas, remove gross soil and food particles, then thoroughly wet surfaces. Q-Cide is a strongly corrosive and can be diluted with a soap, sponge or dish cloth to soiling. The recommended use solution is used once and discarded.

Wiping is not necessary for floor surfaces unless heavy soil is to be removed or polished.

#### Active Ingredients:

Dodecyl dimethyl ammonium chloride	4.61%
Methyl Glucyl 50% C-12 40% C-10 10% dimethyl benzyl ammonium chloride	3.67%
Inert ingredients	91.72%

**KEEP OUT OF REACH OF CHILDREN!  
DANGER**

**ONLY FOR SALE TO, USE, AND STORAGE BY SERVICE PERSONNEL**

#### STATEMENT OF PRACTICAL TREATMENT

In case of skin contact, wash thoroughly with soap and water. For eyes, flush with water for 15 minutes and get prompt medical attention. 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:** Provides minimal damage only. Sanitization is the use of germicidal agents. Molecular oxygen, electrolytic oxygen, respiratory depression and depression may be noted.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Corrosive:** Causes eye damage and skin irritation. May be absorbed through the skin. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Harmful if swallowed. Avoid contamination of food, water or feed.

#### PHYSICAL AND CHEMICAL HAZARDS

Q-Cide is a caustic germicide. Do not mix with soap or other materials.

#### STORAGE AND DISPOSAL

This pesticide must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Do not container for reuse. Food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

#### PESTICIDE DISPOSAL

*Pesticide waste 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.*

#### CONTAINER DISPOSAL

**Metal Containers:** Triple rinse for reconditioning. Then offer for recycling or reconditioning, or crushing and disposal of in a sanitary landfill or by other approved state and local procedures.

**Plastic Containers:** Triple rinse for reconditioning. Then offer for recycling or reconditioning, or disposal of in a sanitary landfill or by other approved state and local authorities, by burning, if burned, stay out of smoke.

EPA Reg. No. 363 EPA Reg. No. 303 (a) (1) (a) (1)

Huntington Laboratories, Inc., Huntington, IN 46750 • Lansdale, PA 19340 • Tulsa, TN 37377 • Hayward, CA 94540 • Phoenix, AZ

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ACCEPTED  
with COMMENTS  
by EPA Letter Dated:

APR 19 1985

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

303-210

### Q-CIDE

#### germicidal detergent

DILUTION 1:128 (1 OUNCE PER GALLON)

PSEUDOMONACIDAL  
SALMONELLACIDAL  
STAPHYLOCIDAL  
FUNGICIDAL  
\*VIRUCIDAL

ACCEPTED  
with COMMENTS  
in BPA Letter Dated

APR 19 1985

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

303-210

Q-CIDE's high powered formula is efficacious against a wide spectrum of microorganisms — both gram-negative and gram-positive bacteria, fungi and viruses in the presence of 400 ppm hard water and 5% organic serum simultaneously. Q-CIDE is a powerful formula that disinfects, cleans and deodorizes.

E.P.A. Reg. No. 303-

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Q-CIDE GERMICIDAL DETERGENT

BACTERICIDAL GRAM-NEGATIVE

AGAINST: Pseudomonas aeruginosa  
Enterobacter aerogenes  
Escherichia coli  
Proteus mirabilis  
Salmonella choleraesuis  
Salmonella typhimurium  
Shigella sonnei

Serratia marcescens  
Enterobacter cloacae  
Klebsiella pneumoniae  
Proteus vulgaris  
Salmonella typhi  
Shigella flexneri

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

GRAM-POSITIVE

Staphylococcus aureus  
Streptococcus pyogenes

Streptococcus faecalis

APR 19 1985

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

ANTIBIOTIC RESISTANT BACTERIA

Pseudomonas aeruginosa  
Klebsiella pneumoniae  
Escherichia coli

Staphylococcus aureus  
Staphylococcus epidermidis  
Streptococcus faecalis

313-210

VIRUCIDAL Adenovirus, Type 4  
AGAINST: Influenza, Type A/Hong Kong  
Vaccinia

Herpes Simplex, Type 1  
Rubella

FUNGICIDAL Trichophyton mentagrophytes  
AGAINST: Candida albicans

DISINFECTS: Q-CIDE has a blend of active ingredients for broad spectrum disinfection.

CLEANS: Q-CIDE's special combination of synthetic detergents and builders provides the cleaning properties.

DEODORIZES: Q-CIDE destroys most odor-causing bacteria, eliminating odors at their source.

LABOR SAVING: Q-CIDE's combination of ingredients means cleaning and disinfecting can be accomplished in one easy labor saving step.

STABILITY: Stable for a period of not less than 1 year from the date of manufacture.

FLASH POINT: None to boiling.

FRAGRANCE: Peppermint

COLOR: Blue

ACTIVE	didecyl dimethyl ammonium chloride .....	4.61%
INGREDIENTS:	n-alkyl (C <sub>14</sub> 50%, C <sub>12</sub> 40%, C <sub>16</sub> 10%) dimethyl benzyl ammonium chlorides .....	3.07%
INERT		
INGREDIENTS:	.....	92.32%
TOTAL:	.....	100.00%

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**Q-CIDE IS BACTERICIDAL**

**PSEUDOMONACIDAL, SALMONELLACIDAL, STAPHYLOCIDAL  
IN THE PRESENCE OF 400 PPM HARD WATER AND 5% ORGANIC SERUM**

When tested according to the Use-Dilution Confirmation Method as outlined in the current A.O.A.C. edition, Q-CIDE is bactericidal against the representative gram-negative organisms *Pseudomonas aeruginosa* and *Salmonella choleraesuis* and the representative gram-positive organism, *Staphylococcus aureus*.

**PRODUCT:** Q-CIDE diluted 1:128

**TEST METHOD:** A.O.A.C. Use-Dilution Confirmation Method, modified in the presence of 400 ppm Synthetic hard water and 5% horse serum.

**RECOVERY**

**MEDIA:** Lethen Broth.

**ORGANISMS:** *Pseudomonas aeruginosa* ATCC #15542

*Salmonella choleraesuis* ATCC #10708

*Staphylococcus aureus* ATCC #6538

**RESULTS:**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 19 1985

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No. 303-210

Sample	<i>Pseudomonas aeruginosa</i>			<i>Salmonella choleraesuis</i>			<i>Staphylococcus aureus</i>					
	No. Carriers Tested	No. Carriers With Growth		No. Carriers Tested	No. Carriers With Growth		No. Carriers Tested	No. Carriers With Growth				
A	60	0		60	0		60	0				
B	60	0		60	0		60	0				
C (60 days old)	60	0		60	0		60	0				
Neutralization Controls	+			+			+					
		5 min.	10 min.	15 min.		5 min.	10 min.	15 min.				
Phenol Resistance	1:80	+	-	-	1:80	+	-	-	1:80	+	-	-
	1:90	+	+	+	1:100	+	+	+	1:70	+	+	+

**CONCLUSION:** Q-CIDE is bactericidal in 400 ppm hard water and 5% organic serum against the hospital pathogens *Pseudomonas aeruginosa*, *Salmonella choleraesuis* and *Staphylococcus aureus*, at 1:128 (1 ounce per gallon). Thus Q-CIDE meets the criteria for use as a hospital germicide.

**Q-CIDE IS FUNGICIDAL**

Q-CIDE was treated for effectiveness against the pathogenic fungi, *Trichophyton mentagrophytes* and *Candida albicans* by the A.O.A.C. Fungicidal Test.

**PRODUCT:** Q-CIDE diluted 1:128

**TEST METHOD:** A.O.A.C. Fungicidal Test, modified in the presence of 400 ppm synthetic hard water and 5% horse serum.

**ORGANISM:** *Trichophyton interdigitale* Strain #640

*Candida albicans* Strain #10231

**RESULTS:**

Fungus	ATCC	Exposure Time		
		5 min.	10 min.	15 min.
<i>Trichophyton mentagrophytes</i>	9533	+	-	-
<i>Candida albicans</i>	10231	+	-	-
Phenol Resistance 1:55		+	-	-
1:5		+	+	+
Neutralization control		+	+	+

(+ = growth, - = no growth)

**CONCLUSION:** Q-CIDE is an effective fungicide at 1:128 (1 ounce/gallon) in the presence of 400 ppm hard water and 5% organic serum.

# Q-CIDE KILLS ANTI-BIOTIC RESISTANT ORGANISMS

Antibiotic resistant bacteria strains pose problems in hospitals. Q-CIDE used properly, can reduce the hazard of cross contamination by killing the antibiotic resistant bacteria on the hard surfaces in the hospital.

**PRODUCT:** Q-Cide diluted 1:128

**TEST METHOD:** A.O.A.C. Use-Dilution Confirmation Method, modified in the presence of 400 ppm Synthetic hard water and 5% horse serum.

**RECOVERY**

**MEDIA:** Lethen Broth

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 19 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 303-2-10

Resistant to the Antibiotic (x)

Organism  
Staphylococcus aureus  
Staphylococcus aureus  
Staphylococcus epidermidis  
Streptococcus faecalis  
Escherichia coli  
Klebsiella pneumoniae  
Pseudomonas aeruginosa

Strain  
ATCC 33592  
Hosp. R/NC  
Hosp. R/NC  
Hosp. R/NC  
Hosp. R/NC  
Hosp. R/NC  
Hosp. R/NC

Strain	Amitriacin	Ampicillin	Carbenicillin	Cefamandole	Cefazolin	Cefoxitin	Chloramphenicol	Clindamycin	Erythromycin	Gentamycin	Kanamycin	Methicillin	Penicillin	Tetracycline	Tobramycin
ATCC 33592															
Hosp. R/NC					x			x	x		x		x	x	x
Hosp. R/NC					x			x	x		x		x	x	x
Hosp. R/NC					x			x	x		x		x	x	x
Hosp. R/NC					x			x	x		x		x	x	x
Hosp. R/NC		x	x					x	x		x		x	x	x
Hosp. R/NC	x	x	x	x	x	x	x								
Hosp. R/NC											x				
Hosp. R/NC															x

## RESULTS:

Gram-Positive Bacteria  
Staphylococcus aureus 33592  
Staphylococcus aureus  
Staphylococcus epidermidis  
Staphylococcus faecalis

Plate Counts (CFU/Carrier)  
4.7 x 10<sup>5</sup>  
9.0 x 10<sup>5</sup>  
1.02 x 10<sup>6</sup>  
2.7 x 10<sup>6</sup>

No. Carriers Tested  
20  
20  
20  
20

No. Carriers Showing Growth  
0  
0  
0  
0

Gram-Negative Bacteria  
Escherichia coli  
Klebsiella pneumoniae  
Pseudomonas aeruginosa  
Neutralization controls

4.2 x 10<sup>5</sup>  
1.23 x 10<sup>6</sup>  
1.13 x 10<sup>6</sup>

20  
20  
20

0  
0  
0  
+

**CONCLUSION:** Q-CIDE kills antibiotic resistant bacteria at 1:128, (1 ounce per gallon) in the presence of 400 ppm hard water and 5% organic serum.

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**Q-CIDE HAS BROAD SPECTRUM BACTERICIDAL ACTIVITY AGAINST  
GRAM-NEGATIVE AND GRAM-POSITIVE ORGANISMS**

Q-CIDE was tested against a wide range of pathogenic bacteria.

**PRODUCT:** Q-CIDE diluted 1:128

**TEST METHOD:** A.O.A.C. Use-Dilution Confirmation Test, modified in the presence of 400 ppm hard water and 5% horse serum.

**RECOVERY**

**MEDIA:** Lethen Broth

**RESULTS:**

Gram Negative Bacteria	ATCC Strain	Plate Counts (CFU/Carrier)	No. Carriers Tested	No. Carriers Showing Growth
<i>Pseudomonas aeruginosa</i>	15442	$3.8 \times 10^8$	180	0
<i>Salmonella choleraesuis</i>	10708	$9.2 \times 10^5$	180	0
<i>Enterobacter aerogenes</i>	13048	$5.4 \times 10^6$	20	0
<i>Enterobacter cloacae</i>	23355	$2.8 \times 10^6$	20	0
<i>Escherichia coli</i>	25822	$1.18 \times 10^6$	20	0
<i>Klebsiella pneumoniae</i>	13683	$6.1 \times 10^6$	20	0
<i>Proteus mirabilis</i>	25833	$2.5 \times 10^6$	20	0
<i>Proteus vulgaris</i>	13315	$6.1 \times 10^5$	20	0
<i>Salmonella typhi</i>	8539	$1.46 \times 10^8$	20	0
<i>Salmonella typhimurium</i>	14028	$6.9 \times 10^6$	20	0
<i>Serratia marcescens</i>	8100	$3.5 \times 10^5$	20	0
<i>Shigella flexneri</i>	12022	$1.29 \times 10^6$	20	0
<i>Shigella sonnei</i>	25831	$5.3 \times 10^5$	20	0

Gram Positive Bacteria	ATCC Strain	Plate Counts (CFU/Carrier)	No. Carriers Tested	No. Carriers Showing Growth
<i>Staphylococcus aureus</i>	6538	$1.32 \times 10^6$	180	0
<i>Streptococcus faecalis</i>	19433	$1.26 \times 10^6$	20	0
<i>Streptococcus pyogenes</i>	10615	$5.3 \times 10^4$	20	0

Neutralization Controls

**CONCLUSION:** Q-CIDE is effective at 1:128 dilution (1 ounce per gallon) against a broad range of gram-negative and gram-positive hospital pathogens in the presence of 400 ppm hard water and 5% organic serum.

**Q-CIDE IS VIRUCIDAL**

To simulate in-use conditions, 5% horse serum was added to the specific virus, the mixture inoculated onto a hard surface, allowed to dry, and then treated with the disinfectant diluted 1:128 in 400 ppm synthetic hard water for 10 minutes at 20° C. At least a 4 log reduction in virus titer is required for a virucidal claim.

Influenza is a lipid RNA virus, meaning it contains a protein coat making it more resistant to disinfectants, causes acute respiratory diseases. Adenovirus is a DNA virus, also causes acute respiratory diseases. Herpes simplex is also a DNA virus which causes skin ulcerations in or around the oral cavity (cold sores in or around the mouth). Vaccinia is a DNA pox virus used for vaccination of man for immunity against smallpox. Rubella is a RNA-containing, ether-sensitive virus which causes German measles. As you can see, we have tested against (1) RNA and DNA viruses, (2) lipid and non-lipid viruses, and (3) viruses causing a variety of diseases that can be hospital acquired.

**PRODUCT:** Q-CIDE diluted 1:128

**RESULTS:**

Virus	Titer Reduction
Adenovirus, Type 4	5.5 log
Herpes Simplex, Type 1	7.5 log
Influenza Virus, Type A/Hong Kong	8.0 log
Rubella (German Measles) Virus, Strain M-33	5.0 log
Vaccinia Virus, IHD Strain	7.0 log
Neutralization controls = positive	
Cytotoxicity = none	

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 19 1985

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

303-210

**CONCLUSION:** Q-CIDE is virucidal against Adenovirus Type 4, Herpes simplex, Influenza Type A, Rubella and Vaccinia viruses in the presence of 400 ppm hard water and 5% organic serum.

**Adenovirus Type 4** — 2 to 4% of acute respiratory diseases caused by Adenoviruses as the DNA virus is spread readily from one person to another.

**Candida albicans** — An oval, budding yeast-like fungus which causes infections of the mouth, skin, hands, lungs and other organs.

**Enterobacter aerogenes** — found in feces of man.

**Enterobacter cloacae** — found in feces, urine and pus of man.

**Escherichia coli** — responsible for infantile diarrhea outbreaks.

**Herpes Simplex, Type 1** — A DNA virus causing fever blisters and cold sores. The blisters may rupture and ulcerate.

**Influenza, Type A/Hong Kong** — an RNA virus that causes the grippe or the flu.

**Klebsiella pneumoniae** — this particular organism is responsible for approximately 2% of all bacterial pneumonia. If left untreated, it will produce an extensive hemorrhagic effect with a mortality rate of 40-90%. Occasionally produces urinary tract infections in children and bacteremia in debilitated patients.

**Proteus mirabilis and Proteus vulgaris** — the "swarming" organisms frequently are responsible for urinary tract infections. Occasionally produces bacteremia with focal lesions in debilitated patients or through intravenous pneumonia and eye infections.

**Pseudomonas aeruginosa** — an opportunistic hospital pathogen when introduced into areas of people lacking normal defenses; for example, burn patients. Produces wound infections with blue-green pus, meningitis, pneumonia and eye infections.

**Rubella** — An RNA-containing, ether sensitive virus which causes German measles.

**Salmonella choleraesuis** — occasionally causes acute gastroenteritis and septacemia and has been known to cause meningitis, osteomyelitis, pneumonia and endocarditis. Also, it is a secondary causative agent of hog cholera.

**Serratia marcescens** — both pigmented and non-pigmented strains have been known to cause urinary tract infections. The non-pigmented strain can cause pneumonia and sepsis.

**Shigella sonnei and shigella flexneri** — S. sonnei can cause mild dysentery and S. flexneri can cause epidemic dysentery. Shigellae are transmitted by food, fingers, feces and flies.

**Staphylococcus aureus** — food contaminant producing an enterotoxin causing food poisoning when ingested. Incubation time is 1-8 hours. A typical Staphylococcal lesion is a furuncle, carbuncle or localized abscess; for example, acne and impetigo.

**Staphylococcus epidermidis** — the organism can cause stitch abscesses of the skin. Can cause ventriculitis, meningitis or bacteremia gaining entrance via plastic tubing.

**Streptococcus faecalis** — causes variable hemolysis and associated with food poisoning.

**Streptococcus pyogenes** — causes respiratory tract infections such as tonsillitis, scarlet fever, ear and sinus infections. Has been found in surgical incisions and in the uterus after delivery.

**Trichophyton mentagrophytes** — common cause of athlete's foot; athlete's foot is spread through the use of common showers and dressing rooms.

**Vaccinia** — A DNA pox virus used for vaccination of man for immunity against smallpox.

## DEFINITIONS OF TEST PROCEDURES

**A.O.A.C.** — Association of Official Analytical Chemists

**Neutralization Control** — A positive control indicating the recovery medium will neutralize carry-over of test solution and that it will support bacterial growth.

**Phenol Resistance** — A requirement that the bacteria have to meet in order to be used for A.O.A.C. tests.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

APR 19 1985

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

303-210



# Q-CIDE

## germicidal detergent

### For Hospital Use

Disinfects — Cleans — Deodorizes

Q-Cide is Pseudomonacidal, Salmonellacidal, Staphylococidal, Fungicidal, and Virucidal against many lipophilic viruses such as Herpes Simplex, Type 1 (causes fever blisters), Vaccinia (pox virus used for the vaccination of man), Adenovirus Type 4 (causes 2 to 4% acute respiratory diseases), Rubella (German measles), and Influenza Type A/Hong Kong (causes gripe or flu) along with many other gram-negative and gram-positive bacteria pathogenic to man in the presence of 5% blood serum and 400 ppm hard water simultaneously. Q-Cide is to be used only on hard, non-porous, inanimate environmental surfaces.

DILUTION: 1 to 128 ..... 1 ounce per gallon

Suggested Use	Gallon Dilution	Applications
general cleaning & disinfecting	1 ounce	spray, mop sponge or soak
mop mopping floors	1 ounce	mop
conductive floors	1 ounce	mop or spray and pickup
furniture	1 ounce	sponge or cloth
walls	1 ounce	sponge
nursing stations	1 ounce	according to need and use
laboratory equipment	1 ounce	according to need and use
stainless steel	1 ounce	sponge
rubber products	1 ounce	stiff brush or sponge
laboratory fixtures	1 ounce	brush or sponge
disposal equipment	1 ounce	stiff brush or sponge
safety equipment	1 ounce	stiff brush or sponge
bathrooms	1 ounce	mop floors, wipe walls and fixtures
mattress covers	1 ounce	wipe with sponge or cloth
toilet seats	1 ounce	wipe with sponge, rinse
heavily soiled surfaces	1 ounce	mop, wipe or sponge

*NOTE: The prescribed contact time is a minimum of 10 minutes in a single application. For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surfaces. The recommended use solution is used once and discarded.*

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 19 1985

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

303-210

EPA Reg. No. 303-

# Huntington

Huntington Laboratories, Inc., Huntington, IN 46789 • Lansdale, PA 19440 • Dallas, TX 75217 • Hayward, CA 94540 • Brandon, Ont.

# Delergente Anti-bacterial

Para Uso En Hospitales  
Desinfecta — Limpia — Desodoriza

Q-Cide es Pseudomonacidal, Estafilocidal, Salmonelacidal, Fungicidal, y Virucidal en contra de muchos virus Lipofílicos, como Herpes Simplex Type 1 (CAUSA VERRUGAS EN LA BOCA Y LABIOS), Vaciinia (poxvirus usadas para la vacunación del hombre), Adenovirus Clase 4 (CAUSA DE 2 u 4% ENFERMEDADES AGUDAS DEL SISTEMA RESPIRATORIO), Rubella (SARADIAN ALERIAN), y Influenza, Type A/Hong Kong (CAUSA DE GRIPE O FLU). Ascend mata muchas otras bacterias gramo-negativas y gramo-positivas patogenicas al hombre en presencia de 5% de suero sanguineo y 400 ppm aqua dura simultaneamente. es para uso únicamente en superficies duras no-porosas, en ambientes inanimados.

DILUCION: 1 a 128 ..... 1 onza por galon

Usos Recomendados	Dilucion por Galon	Aplicaciones
limpieza y desinfección general	1 onza	rocear, limpiar con esponja o enjuagar
trapeando pisos con trapero humedo	1 onza	trapear
pisos conductivos	1 onza	trapear o rocear y recoger
muebles	1 onza	esponja o trapo
paredes	1 onza	esponja
estaciones de enfermeras	1 onza	de acuerdo con necesidad y uso
equipo de laboratorio	1 onza	de acuerdo con necesidad y uso
instrumentos dentales y de cirugía	1 onza	limpiar con chorro de agua y enjuague
hierro cromado	1 onza	esponja
productos plásticos	1 onza	cepillo fuerte o esponja
accesorios de laboratorio	1 onza	cepillo o esponja
equipo de disposición	1 onza	cepillo duro o esponja
equipo de seguridad	1 onza	cepillo duro o esponja
baños	1 onza	trapeado de pisos, limpieza de paredes y accesorios
cubiertas de colchones	1 onza	limpiar con esponja o trapo
sillas del retrete	1 onza	limpiar con esponja o trapo
superficies bien sucias	1 onza	trapear, limpiar con esponja

(NOTE: Spanish text is being put together by our translator and will be inserted before the final version is printed.)

EPA Reg. No. 303-

 **Huntington**

Huntington Laboratories, Inc., Huntington, IN 46780 • Lansdale, PA 19346 • Dallas, TX 75227 • Hayward, CA 94540 • Brampton, Ontario

# Q-CIDE

germicide detergent

EPA REG. NO. 303



## Procedures for General Hospital Use

The standard use-dilution for germicide cleaning with Q-Cide's germicide detergent is a 1:128 solution. Equivalent measures are 1 ounce per gallon, 12 ounces per standard 12-gallon mopping tank or 6 ounces per 6-gallon bucket of water. Rinsing is

not necessary unless floors are to be waxed or polished. *The prescribed contact time is a minimum of 10 minutes in a single application.*

*For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surface. The recommended use solution is used once and discarded.*

1. Q-Cide will be used in the general house-cleaning of the hospital.
2. Administrative offices and admitting offices, medical records library, laboratory department, pharmacy, x-ray department, visitor lounges and lobby areas should be damp mopped with Q-Cide solution daily.
3. Main lobby, main corridor, wing corridors and emergency rooms should be damp mopped with Q-Cide solution early in the morning.
4. All patient rooms should be damp mopped with Q-Cide solution daily.
5. All bathrooms, wash bowls and fixtures in patient rooms and baths should be wiped thoroughly with Q-Cide solution daily.

6. Public bathrooms and locker rooms should be cleaned thoroughly with Q-Cide solution daily. The floors and fixtures should be mopped or wiped down with Q-Cide solution twice daily.
7. The dietary department should be cleaned thoroughly. Floors should be damp mopped with Q-Cide solution daily. Food carts are to be wiped down with Q-Cide solution. Avoid contamination of food. Clean and disinfect garbage cans and adjacent areas with Q-Cide.
8. All other areas not mentioned should be damp mopped once daily.
9. Mops used for Q-Cide solution should be clean for each day's use and not used for any other purpose.
10. Isolation areas are to be flooded or mopped daily with Q-Cide solution and equipment and fixtures disinfected as directed by department heads responsible.

(Q-Cide's one-step action disinfects and cleans in 400 ppm hard water and 5% organic serum simultaneously.) Q-Cide is staphylocidal, pseudomonacidal, fungicidal and virucidal against *MANY* lipophilic viruses such as Herpes Simplex, Type 1, Vaccinia, Adenovirus, Type 4, Rubella, and Influenza, Type A/Hong Kong or H2N2, non-porous inanimate environmental surfaces.

Huntington™

HUNTINGTON LABORATORIES, INC., Huntington, IN 46750 • 219/356-8100  
Lansdale, PA 19446 • Dallas, TX 75227 • Hayward, CA 94540 • Brampton, Ont.

# Q-CIDE

germicidal detergent

EPA REG. NO. 303

**BEST AVAILABLE COPY**

## Operating Suite Procedures

The standard use-dilution for germicidal cleaning with Q-Cide germicidal detergent is a 1:128 solution. Equivalent measures are 1 ounce per gallon, 12 ounces per standard 12-gallon mopping tank or 6 ounces per 6-gallon bucket of water. Rinsing is not necessary unless floors are to be waxed or polished. *The prescribed contact time is a minimum of 10 minutes in a single application.*

*For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surfaces. The recommended use solution is used once and discarded.*

1. Q-Cide will be used in the housecleaning of the entire operating suite including equipment at all times.
2. Equipment, such as operating tables, instrument tables, basins, racks and lights will be wiped down daily with Q-Cide solution, more often when necessary. Swab or rinse exterior surfaces thoroughly.
3. Floors are to be thoroughly cleaned with Q-Cide solution after each operation.

4. Walls of operating rooms should be wipe down with Q-Cide solution weekly unless conditions warrant the use of Q-Cide solution more often.
5. The operating suite shall be thoroughly cleaned with Q-Cide solution once each week.
6. Conductive floors shall be machine scrubbed once a week using Q-Cide solution (using 1 ounce Q-Cide per gallon of water). If possible, pick up with vacuum, then rinse with standard Q-Cide solution.
7. Mops used for Q-Cide solution shall be clean for each day's use and not used for other purposes.

(Q-Cide's one-step action disinfects and cleans in 400 ppm hard water and 5% organic serum simultaneously.) Q-Cide is staphylocidal, pseudomonacidal, fungicidal and virucidal against *MANY* lipophilic viruses such as Herpes Simplex, Type 1, Vaccinia, Adenovirus, Type 4, Rubella, and Influenza, Type A/Hong Kong avian, non-porous inanimate environmental surfaces.



# Q-CIDE

germicide detergent

EPA REG. NO. 303

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## Delivery Room Suite Procedures

The standard use-dilution for germicide cleaning with Q-Cide germicide detergent is a 1:128 solution. Equivalent measures are 1 ounce per gallon, 12 ounces per standard 12-gallon mopping tank or 6 ounces per 6-gallon bucket.

water. Rinsing is not necessary unless floors are to be waxed or polished. The prescribed contact time is a minimum of 10 minutes in a single application.

*For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surfaces. The recommended use solution is used once and discarded.*

1. Q-Cide solution will be used in the house-cleaning of the entire delivery room suite.
2. Floors in the delivery room should be cleaned thoroughly with Q-Cide solution after each delivery.
3. All equipment, such as delivery tables, instrument tables, basins, racks and lights should be wiped down daily with Q-Cide solution.
4. Walls of delivery room are to be wiped down every other day with Q-Cide solution.
5. Labor rooms, locker rooms and delivery suite corridors should be damp mopped with Q-

Cide solution daily, more often when necessary.

6. Beds, chairs and other equipment in the delivery suite are to be wiped down with Q-Cide solution twice a week.
7. All walls and floors in the delivery rooms should be cleaned once each week with Q-Cide solution, more often when necessary.
8. Walls of the delivery suite other than the delivery room should be wiped with Q-Cide solution once each week.
9. Conductive floors shall be machine scrubbed once a week with Q-Cide (using 1 ounce per gallon of water - heavy soil may require more Q-Cide), and then rinse with standard Q-Cide solution.
10. Mops used for Q-Cide solution should be clean for each day's use and not used for other purposes.

(Q-Cide's one-step action disinfects and cleans in 400 ppm hard water and 5% organic serum simultaneously.) Q-Cide is staphylocidal, pseudomonocidal, fungicidal and virucidal against many lipophilic viruses such as Herpes Simplex, Type 1, Vaccinia, Adenovirus, Type 4, Rabies, and Influenza, Type A/Hong Kong or hard, non-porous inanimate environmental surfaces.

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# Q-CIDE™

**NON AVAILABLE COPY**

germicide detergent

EPA REG. NO. 303-\_\_\_\_\_

## Procedures for Terminal Cleaning of Isolation Room

The standard use-dilution for germicide cleaning with Q-Cide germicide detergent is a 1:128 solution. Equivalent measures are 1 ounce per gallon, 12 ounces per standard 12-gallon mopping tank or 6 ounces per 6-gallon bucket of water. Rinsing is not necessary unless floors are to be waxed or polished. *The prescribed contact time is a minimum of 10 minutes in a single application.*

*For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surfaces. The recommended use solution is used once and discarded.*

1. When notified that an isolation room has been vacated, collect supplies and equipment necessary for cleaning the room.
2. Follow all required precautions for personal protection such as gowns, masks and proper hand washing.
3. Mix a solution of Q-Cide (1 oz. per gallon) with the solution, clean all horizontal surfaces of:
 

a. bed	d. bedside lamp
b. overbed table	e. chairs
c. bedside cabinets	

4. Clean thoroughly:

- |                    |                                  |
|--------------------|----------------------------------|
| a. windows         | c. mattress cover & pillow cover |
| b. venetian blinds | d. chairs                        |

5. Wash with Q-Cide solution (1 oz. per gallon) anything else in the room which has a horizontal surface. Change solution as required at any point in the cleaning.

6. Wash with Q-Cide solution (1 oz. per gallon) any area in the room which shows any visible amount of soil or possible prior contamination.

7. Mop floor with clean mop and Q-Cide solution (1 oz. per gallon).

8. Clean equipment used and return to proper storage area.

*(Q-Cide's one-step action disinfects and cleans in 400 ppm hard water and 5% organic serum simultaneously.) Q-Cide is staphylocidal, pseudomonacidal, fungicidal and virucidal against many lipophilic viruses such as Herpes Simplex, Type 1, Vaccinia, Adenovirus, Type 4, Rubella, and Influenza, Type A/Hong Kong av. man, non-porous inanimate environmental surfaces.*



# Q-CIDE

germicidal detergent

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EPA REG. NO. 303

## Procedures for Use in Nursery

The standard use-dilution for germicidal cleaning with Q-Cide germicidal detergent is a 1:128 solution. Equivalent measures are 1 ounce per gallon, 12 ounces per standard 12-gallon mopping tank, or 6 ounces per 6-gallon bucket of water. Rinsing is not necessary unless floors are to be waxed or polished. *The prescribed contact time is a minimum of 10 minutes in a single application.*

*For disinfecting heavily soiled areas, remove gross filth and soil deposits, then thoroughly wet surfaces. The recommended use solution is used once and discarded.*

1. Q-Cide will be used in the housecleaning of the nursery.
2. Floors shall be cleaned thoroughly with Q-Cide solution at least once daily.
3. Bassinets, scales and other equipment should be wiped down thoroughly once daily.

Surfaces that come into contact with babies should be wiped dry with a clean cloth or rinsed.

4. Walls, windows and equipment are to be wiped down thoroughly with Q-Cide solution each week or more often when needed.
5. Mops used for Q-Cide solution should be clean for each day's use and not used for other purposes.

(Q-Cide's one-step action disinfects and cleans in 400 ppm hard water and 5% organic serum simultaneously.) Q-Cide is staphylocidal, pseudomonacidal, fungicidal and virucidal against *MANY* lipophilic viruses such as Herpes Simplex, Type 1, Vaccinia, Adenovirus, Type 4, Rubella, and Influenza, Type A/Hong Kong or H1N1, non-porous, INANIMATE ENVIRONMENTAL SURFACES.

# Huntington

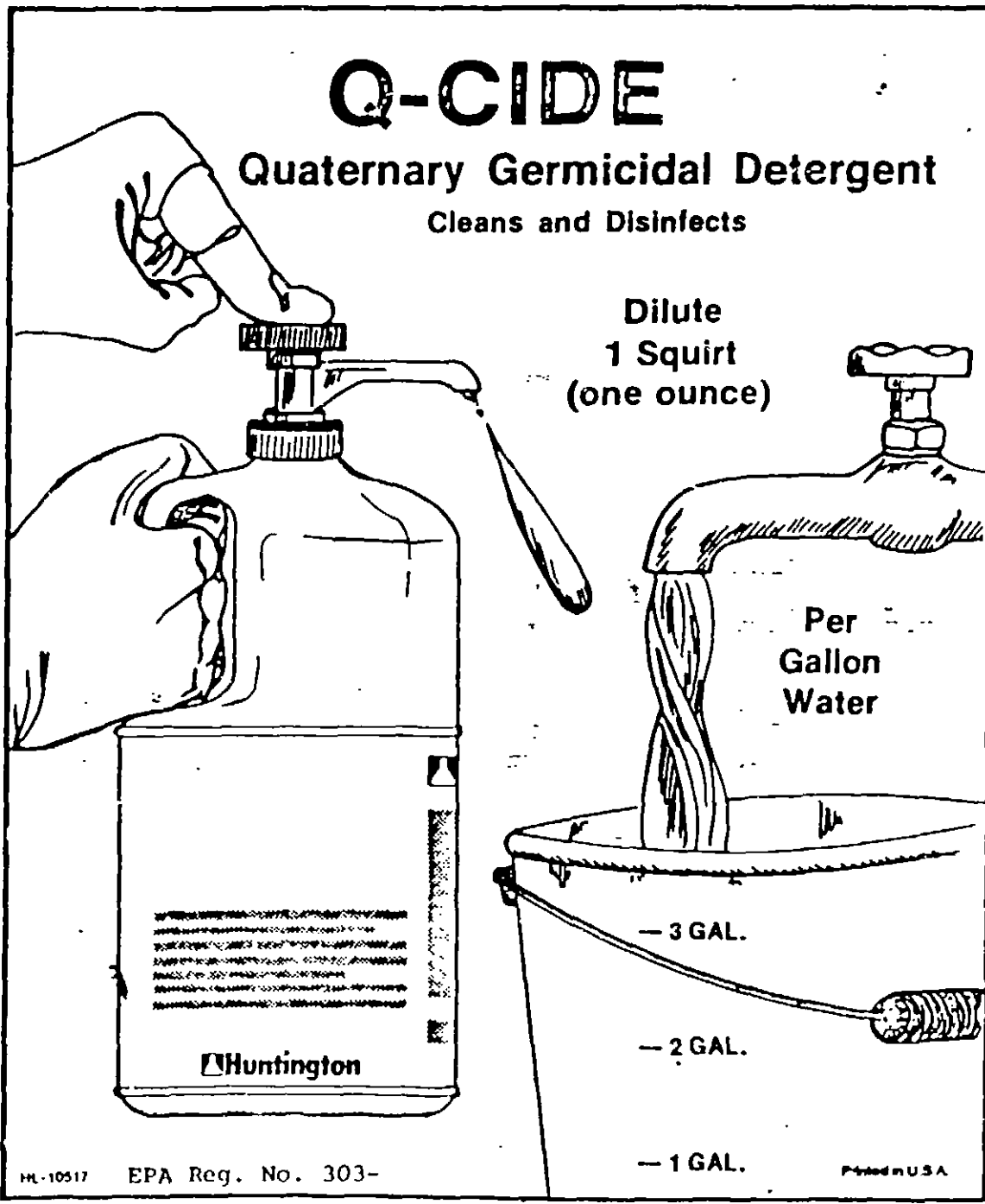
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# Huntington™

## Q-CIDE

**Quaternary Germicidal Detergent**

**Cleans and Disinfects**



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# Huntington™

**Q-CIDE**  
*Detergente* **Anti-germen**  
 Limpia Y Desinfecta

Diluya  
 Un Chorro  
 (un onza)

Por  
 Galon  
 de Agua

— 3 GAL.  
 — 2 GAL.  
 — 1 GAL.

HL-10517 EPA Reg. Nu. 303- Printed in U.S.A.

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## SALES BROCHURE FOR Q-CIDE

## For Infection Control

Huntington Laboratories, a leader in germicide research, has formulated a powerful combination of two quaternary ammonium chlorides in a concentrated detergent system. The result- *Q-Cide*

*Q-Cide's* powerful formula, disinfects, cleans and deodorizes to help you in your critical infection control responsibilities.

## Reduces Nosocomial Infections

*Q-Cide's* excellent cleaner coupled with a powerful combination of two quaternary ammonium chlorides provides you with a potent germicide that destroys hospital pathogens *ON INANIMATE ENVIRONMENTAL SURFACES* which can cause nosocomial infections.

*Additional Testing*

*Q-Cide* meets the minimum requirements for a hospital germicide by proving effectiveness against Pseudomonas, Salmonella and Staphylococcus. The extra margin of confidence is Ascend's proven efficacy against 13 more gram-negative and gram-positive bacteria, 7 antibiotic resistant bacteria, 5 viruses representing four families and 2 fungi. This *additional testing in the presence of 400ppm hard water (calculated as CaCO<sub>3</sub>) and 5% organic serum gives Q-Cide the broadest margin of confidence available today.*

## Proven Effective Under Soil Loads

Historically, quat efficacy has been questioned under soil loads. *Q-Cide* solves this problem. *Q-Cide* is proven to be a highly effective germicidal detergent under requirements of 400 ppm hard water (calculated as CaCO<sub>3</sub>) and 5% organic serum using current A.O.A.C. test procedures.

*Q-Cide's effectiveness for disinfecting and cleaning in 400ppm hard water and 5% organic serum simultaneously provides more assurance for critical care areas.*

## Effective In Critical Areas

*Q-Cide* can be used in the operating suite, delivery room, isolation room, nursery, burn unit and trauma units. Virtually all areas of the hospital can be disinfected, cleaned and deodorized quickly with one product

## Antibiotic Resistant Organisms

Recent concerns about the efficacy of germicides against antibiotic resistant organisms are addressed by *Q-Cide*. Tests *with 7 different strains show effectiveness against* Pseudomonas, E. coli, Klebsiella, Staphylococcus and Streptococcus which are resistant to: Methicillin, Penicillin, Tetracycline, etc. (see Research Bulletin for further details).

SALES BROCHURE FOR *Q-CIDE* (Continued)

FOR HOUSEKEEPING

EASY TO USE

- *Q-Cide* is conveniently packaged in easy-to-handle 1 gallon containers. Available proportioning systems provide economical and accurate dilution.
- A simple self-contained 1 ounce pump provides a controlled method for accurate measurement.
- The attractive, theft-proof Liquefactor cabinet provides an accurate proportioning system for two 1 gallon containers.
- A Handi-Grip spray bottle labeled specifically for *Q-Cide* enables the staff to work with a ready-to-use identifiable product.

SAFETY

- *Q-Cide* containers have easy-to-read directions and have been color coded to provide ready identification.
- *Q-Cide* has a pleasant fragrance for added employee acceptance.
- *Q-Cide* does not have a flash point.

DEODORIZES

*Q-Cides* simultaneous action kills odor causing germs while it cleans and disinfects. Its sassafras fragrance leaves a fresh clean scent that both patients and staff appreciate

*Q-Cide* IS ECONOMICAL

At 1 ounce per gallon (1:128) *Q-Cide* makes 128 gallons of solution that disinfects, cleans and deodorizes in all areas when you need it.

CLEANS EASILY WITH NO RINSING

*Q-Cides* powerful formula easily disinfects and cleans floors, walls, lavatory and patient room fixtures and other inanimate environmental surfaces. The rinsing of floors is not necessary unless surface is to be waxed or polished.

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

APR 19 1985

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

303-210

**EDUCATION PROGRAMS**

The finest products are only as good as the people who use them.

To assist you in the difficult and time consuming task of training, Huntington provides a complete set of educational training programs.

- Huntington's Professional Sales Representatives are available for personalized in-service programs.
- Film strips teaching various housekeeping tasks are available in English and Spanish.
- Wall Cards are available in English and Spanish to assist in the proper use of *Q-Cide*
- Procedures for cleaning and disinfecting the Operating Suite, Delivery Room Suite, Isolation Room, the Nursery and other areas are available.

**TECHNICAL PRODUCT INFORMATION**

**Description**

*Q-Cide* is a Quaternary ammonium germicidal detergent for use as a general disinfectant cleaner on hard, non-porous, inanimate objects.

*Q-Cide* is proven effective against the following hospital pathogens in 400 ppm hard water and 5% organic serum simultaneously as determined by the appropriate official A.O.A.C. or E.P.A. test.

**Gram-Negative Bacteria**

- Pseudomonas aeruginosa ATCC 15442
- Salmonella choleraesuis ATCC 10708
- Enterobacter cloacae ATCC 23355
- Enterobacter aerogenes ATCC 13048
- Escherichia coli ATCC 25922
- Klebsiella pneumoniae ATCC 13883
- Proteus mirabilis ATCC 29533
- Proteus vulgaris ATCC 13315
- Salmonella typhi ATCC 6539
- Salmonella typhimurium ATCC 14028
- Serratia marcescens ATCC 8100
- Shigella flexneri ATCC 12022
- Shigella sonnei ATCC 25931

**Viruses**

- Adenovirus Type 4
- Herpes Simplex, Type 1
- Influenza Type A/Hong Kong
- Vaccinia
- Rubella

**Fungi**

- Trichophyton mentagrophyte
- Candida albicans

**Gram-Positive Bacteria**

- Staphylococcus aureus ATCC 6538
- Streptococcus faecalis ATCC 19433
- Streptococcus pyogenes ATCC 19615

**Antibiotic Resistant Organisms**

- Staphylococcus aureus ATCC 33592
- Staphylococcus aureus
- Staphylococcus epidermidis
- Streptococcus faecalis
- Escherichia coli
- Klebsiella pneumoniae
- Pseudomonas aeruginosa

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ACCEPTED  
with COMMENTS  
in EPA Letter dated

SALES BROCHURE FOR *ACIDE* (Continued)

APR 19 1985

TECHNICAL PRODUCT INFORMATION Continued...

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

303-210

Properties

Active Ingredients

didecyl dimethyl ammonium chloride. . . . . 4.61 %  
n-alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%) dimethyl benzyl ammonium chlorides . 3.07 %

Color: *Blue*

Fragrance: *Peppermint*

Dilution

1:128 - 1 ounce per gallon of water, shall dilute clear and be effective in hard or soft water.

Simultaneous Action

Diluted product effective in 400 ppm hard water (calculated as CaCO<sub>3</sub>) and 5% organic serum simultaneously by the appropriate A.O.A.C. and E.P.A. Test methods.

Stability

Concentrated product shall remain stable for a period of not less than one year from date of manufacture when stored under normal conditions.

	Min.	Max.
pH Undiluted - ASTM E70 . . . . .	7.2	9.2
pH Diluted 1:128 - ASTM E70 . . . . .	7.6	9.6
Non-Volatile Matter - (AOCS Da 2a-48). . . . .	21.0	23.0
Flash Point TOC - ASTM D1310. . . . .	None to Boiling	
Current A.O.A.C. Test . . . . .	1:128	
Weight - Pounds per gallon. . . . .	8.95 pounds	

Convenient Packaging

Container: 1 gallon - six per case  
5 gallon container

EPA Reg. No. 303-

Product Number 1027

Huntington Laboratories, Inc., 970 E Tipton Street, Huntington, IN 46750 219/358-8100  
Lansdale, PA 19446 215/368-1061 • Dallas, TX 75227 214/368-2010  
Hayward, CA 94540 415/887-1777 • Bramalea, Ontario, Canada 416/877-2401



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15 APR 1984

Selig Chemical Industries  
840 Selig Drive, SW.  
Atlanta, GA 30336

Attention: Judy D. Smith  
Manager Regulatory Affairs

Gentlemen:

Subject: Selig's D.O.A.  
EPA Registration No. 491-233  
Your Application Dated December 21, 1984

This amendment referred to above, submitted in connection with registration under FIFRA, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. Revise the statement:

Harmful if swallowed

to read:

Harmful or fatal if swallowed.

b. Add the words: Corrosive to the precautionary statements.

Ref: The Lonsa file and its support data.

c. Delete the statement: General Classification

COINCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								