

TECHNICAL DATA

FROM RESEARCH LABORATORY

DuBOIS HFC-11
Quaternary Germicidal Cleaner

GENERAL DESCRIPTION:

DuBois HFC-11 is a nonionic synthetic detergent containing a quaternary germicide and compounded without phosphates. This balanced formula combines the effective cleaning power of a synthetic detergent with the germicidal action of a quaternary. It was designed for one step sanitizing, deodorizing, and cleaning of floors, walls, ceilings—and similar surfaces. HFC-11 is colorless and practically odorless. It is a versatile concentrate and can be used to handle such diverse jobs as stripping floor finishes and general cleaning depending upon the dilution chosen.

PROPERTIES:

pH (1% solution)	11.1
Foam	Moderate
Wetting and Emulsification	Rapid
Rinsing	Excellent
1 liquid ounce/gallon water	390 ppm Quaternary
EPA Registration Number	5736-47
Biodegradable surfactants	Yes

METAL SAFETY:

Safe on stainless steel, iron, glass, copper, plastic, enamel paints, epoxy paints, vinyl and rubber floor tiles. Avoid prolonged soaking of aluminum, brass and galvanize to avoid tarnishing or change in appearance.

RECOMMENDED USING PROCEDURES:

FOR CLEANING -
Lightly soiled areas - surfaces to be cleaned should be mopped or brushed with a solution containing 2 ounce of HFC-11 per gallon of water. Rinse cleaned area with fresh water.

Heavily soiled areas - mop or brush soiled surface with a solution containing 2-3 ounces of HFC-11 per gallon of water. Rinse cleaned surface with fresh water.

GENERAL PURPOSE DISINFECTION -

To disinfect walls, floors and other hard surfaces in homes, schools, restaurants, rest rooms and other public areas, mop or brush surface to be treated with a solution containing 2 ounces of HFC-11 per gallon of water. Surfaces that are heavily soiled should be cleaned with 2-3 ounces of HFC-11 per gallon water and then disinfected. Those surfaces which may later come in contact with food must be rinsed with clear water of drinking quality.

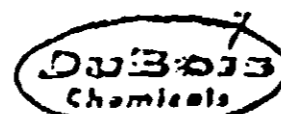
To disinfect locker rooms, shower stalls, walkways around pools and other areas against pathogenic fungi, mop area with solution containing 2 ounces in 1 gallon of water. This solution will destroy *Trichophyton interdigitale*, a causative agent of athlete's foot when used as directed on the above named inanimate hard surfaces.

ACCEPTED

APR 20 1978

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC PEST CONTROL
EPA REG. NO. 5736-47

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.



DuBOIS CHEMICALS, DIVISION OF CHEMED CORPORATION / 12/23/75 / 20

HOSPITAL DISINFECTION -

To disinfect walls, floors, furniture and other hard surfaces in hospitals and nursing homes, mop or brush surface to be treated with a solution containing 2 ounces of HFC-11 per gallon of water. Those surfaces that are heavily soiled with blood, fecal material or exudates should be thoroughly scrubbed with a solution containing 2 ounces per gallon of water and then rinsed with a fresh solution containing 2 ounces per gallon of water before disinfection.

SANITIZATION -

To sanitize walls, floors and equipment in food processing plants, first clean thoroughly with a solution containing 3/4 ounce of HFC-11 per gallon of water. If surface is heavily soiled, use HFC-11 at a rate of 2-3 ounces per gallon to insure thorough cleaning. Sanitize cleaned surface with a rinse solution containing 1/2 ounce of HFC-11 per gallon of water. No rins. required after sanitization. Treated food contact surfaces must be rinsed with potable water prior to reuse.

DEODORIZATION -

To deodorize surfaces during cleaning, mop or brush surfaces with a solution containing 2 ounces of HFC-11 per gallon of water.

HFC-11 is an effective antibacterial cleaner designed for use in household, industrial and institutional cleaning. When used as directed, HFC-11 will disinfect hard surfaces, such as floors, walls, counter tops and furniture. It may be relied upon to deodorize bathroom areas, garbage pails, food storage areas, kennel areas and other areas where obnoxious odors may develop. This product may be used as a general purpose antibacterial-anti-fungal detergent in homes, schools, restaurants, hospitals, nursing homes, public rooms, food processing plants and in other places where efficient cleaning and antimicrobial action is desired.

PACKAGING:

4 - 1 gallon bottles per case.

Do not mix with soap or anionic detergents.

Rinse empty container and discard it.

DANGER

KEEP OUT OF REACH OF CHILDREN.

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

Cross-infection is of major housekeeping concern not only in hospitals, but in schools, institutions, and industry. TECO BLUE is formulated for this problem area. It both cleans and disinfects effectively and is virucidal when used as directed. Its hard surface disinfecting action will reduce the hazard of cross-infection.

TECO BLUE is an extremely effective one-step sanitizer. It cleans and sanitizes in waters up to 800 ppm hardness. This hard water tolerance is in excess of most potable waters and will insure complete sanitizing action when used as directed.

Two ounces of TECO BLUE per gallon of water will deodorize bathrooms, garbage storage areas, and other areas where bacterial growth can cause mal odors.

WARNING

Keep out of reach of children. May cause severe eye irritation or eye damage. Causes skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid contamination of food.

FIRST AID:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash all contaminated clothing before reuse. If swallowed, drink promptly a large quantity of water. Avoid alcohol. Call a physician immediately.

TECO BLUE

Cleaner-Disinfectant-Deodorizer-Fungicide-Virucide*
Sanitizer for Hospital and Institutional Use

AOAC Phenol Coefficients

Staph. aureus (ATCC No. 6538)	100
Salmonella typhosa (ATCC No. 6539)	50

Active Ingredients

Didecyl dimethyl ammonium chloride	0.5%
Tetrasodium ethylenediamine tartrate	1.0%
Sodium carbonate	1.0%
Sodium metasilicate	0.5%

Inert Ingredients

EPA Registration No. 6921-4

Net Contents:

Manufactured By:

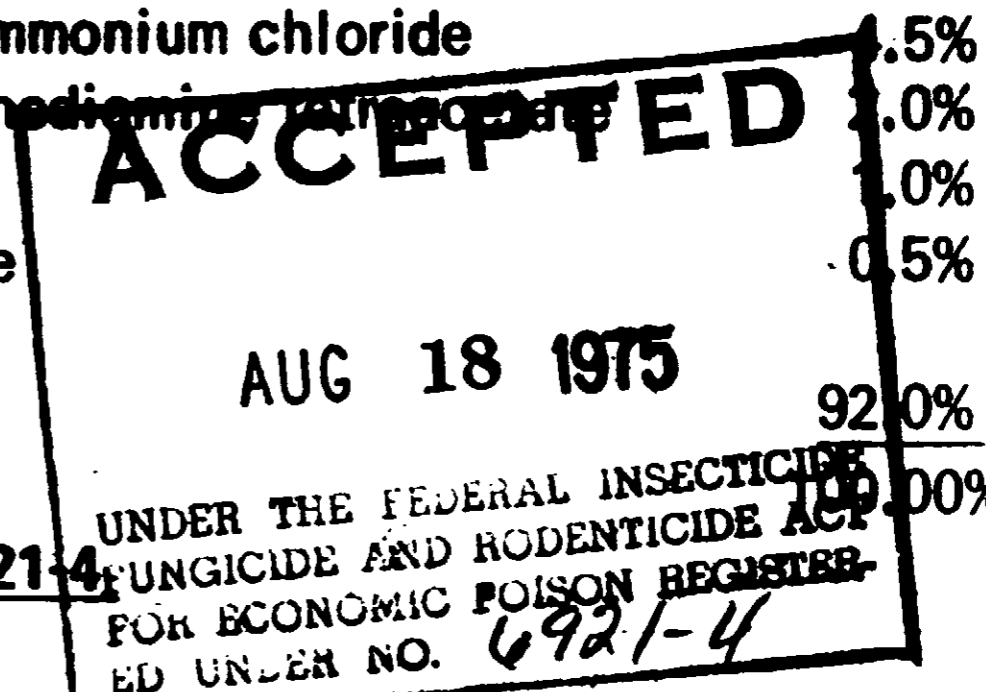
TESCH CHEMICAL CO., INC.

E. Midway Road

Appleton, Wis. 54911

WARNING

KEEP OUT OF REACH OF CHILDREN. SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



Apply TECO BLUE to tables, chairs, and other soiled areas.

For Hospital Use:

At two ounces per gallon, TECO BLUE performs as well as the AOAC standard against Typhoid.

At 2 ounces per gallon, TECO BLUE is as effective as additional disinfectants.

At two ounces per gallon, TECO BLUE is effective against Herpes Simplex, mononucleosis, adenovirus, Influenza, and Hong Kong influenza on surfaces.

For School Use: One gallon of water with two ounces of TECO BLUE.

At one ounce per gallon, TECO BLUE is effective against Staphylococcus aureus, Streptococcus interdigitalis, and other bacteria above to be mentioned.

For sanitizing: Use two ounces per gallon for sanitizing surfaces. For food contact surfaces, use one ounce per gallon.

Rinse immediately after use.

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USE DIRECTIONS

Apply TECO BLUE to walls, floors and other hard surfaces such as tables, chairs and bed frames with a cloth or mop. For heavily soiled areas, a preliminary cleaning may be required.

For Hospitals & Nursing Homes: Add two ounces per gallon of water.

At two ounces per gallon use-level, TECO BLUE is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella choleraesuis*, *Escherichia coli*, and pathogenic fungi. Germicidal performance against the first four organisms has been confirmed by the AOAC Use-Dilution Test. Fungicidal performance was determined against *T. interdigitale* by the AOAC Fungicidal Test.

At 2 ounces per gallon the broad spectrum effectiveness of TECO BLUE is shown by its germicidal action against the following additional organisms.

- Brevibacterium ammoniagenes*
- Enterobacter aerogenes*
- Proteus mirabilis*
- Streptococcus pyogenes*
- Klebsiella pneumoniae*
- Salmonella schottmuelleri*
- Streptococcus faecalis*
- Shigella dysenteriae*

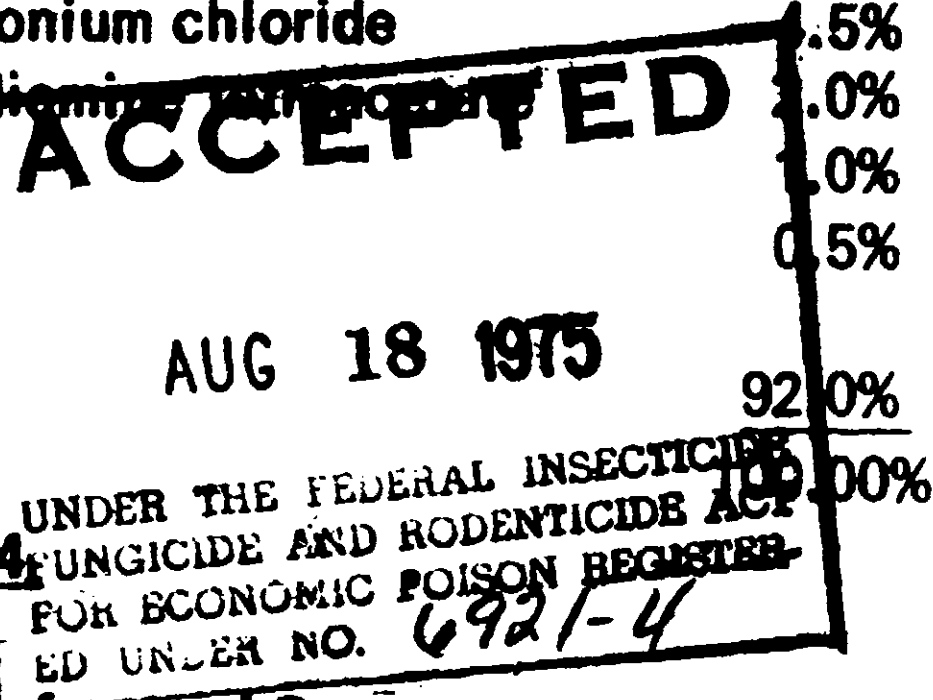
At two ounces per gallon use-level, TECO BLUE is virucidal against Herpes Simplex (a member of the virus family that causes infectious mononucleosis), vaccinia (representative of the pox viruses), adenovirus Type 5 (a causative virus in respiratory diseases), and Influenza A2 as represented by the strains commonly called the Hong Kong Flu and the London Flu Virus, on inanimate environmental surfaces.

For Schools, Institutional and Industrial Uses: Add one ounce per gallon of water.

At one ounce per gallon use-level, TECO BLUE delivers excellent cleaning and is germicidal. It is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Escherichia coli*, and *Trichophyton interdigitale*, the athlete's foot fungus. The same AOAC tests used above to confirm suitable performance for hospitals were used.

For sanitizing add one-half ounce per gallon of water. Use TECO BLUE for sanitizing and cleaning of utensils, equipment, and other hard surfaces. When sanitizing food processing equipment and utensils and food contact surfaces, rinse thoroughly with potable water.

Rinse empty container with water before discarding.



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