

**Precautionary Statements**

**Hazards to Humans and domestic animals**

**DANGER**

Keep out of reach of children. Corrosive. Causes 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 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**

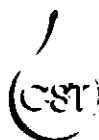
PESTICIDE. SPRAY MIXTURE OR RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT

**CONTAINER DISPOSAL**

TRIPLE RINSE (OR EQUIVALENT), THEN OFFER FOR RECYCLING OR RECONDITIONING, OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES

**GENERAL**

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES



**QUANTUM I**

Disinfectant-Cleaner-Sanitizer-Fungicide Mildewstat-Virucide\* Deodorizer for Hospitals, Institutional and Industrial Use

Effective in hard water up to 473 ppm hardness (calculated as CaCO<sub>3</sub>); in the presence of 5% serum contamination

**Active Ingredients**

Octyl decyl dimethyl ammonium chloride	3.25%
Decyl dimethyl ammonium chloride	1.62%
Dodecyl dimethyl ammonium chloride	1.62%
Alkyl (C <sub>12</sub> , 20%, C <sub>14</sub> , 40%, C <sub>16</sub> , 10%) dimethyl lauryl ammonium chloride	4.34%
<b>Total Ingredients</b>	<b>10.83%</b>

**KEEP OUT OF REACH OF CHILDREN**

100.000%

**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. 46912-8

EPA Establishment No. 46912-CO-1

Net Contents 1 Gallon

MANUFACTURED BY

**CHEMICAL SYSTEMS TECHNOLOGY INC.**  
DENVER, COLORADO 80239

For sale for use and storage by maintenance personnel only

**Directions for Use**  
**GENERAL CLASSIFICATION**

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

**QUANTUM I** is a proven, one-step, disinfectant cleaner sanitizer fungicide mildewstat virucide which is effective in water up to 400 ppm hardness in the presence of 5% serum contamination.

Apply **QUANTUM I** to walls, floors and other hard, inanimate, non porous surfaces such as tables, chairs, countertops, sinks and bedframes with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution daily or when use solution becomes visibly dirty.

**Disinfection**—to disinfect hard, non porous surfaces, add 1 oz. per gallon of water. Treated surfaces must remain wet for 10 minutes. The activity of **QUANTUM I** has been evaluated in the presence of 5% serum and 400 ppm hard water by the AOAC use dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as represented by:

- |                         |                           |
|-------------------------|---------------------------|
| Pseudomonas aeruginosa  | Enterobacter aerogenes    |
| Staphylococcus aureus   | Salmonella schottmuelleri |
| Salmonella choleraesuis | Streptococcus faecalis    |
| Escherichia coli        | Shigella dysenteriae      |
| Streptococcus pyogenes  | Salmonella typhi          |
| Klebsiella pneumoniae   | Shigella flexneri         |

**Fungal Control**—**QUANTUM I** is an effective fungicide against Trichophyton mentagrophytes (athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, etc. Use one gallon, etc. at 1 oz. / gallon.

**Mold and Mildew Control**—At 1 oz. / gallon, **QUANTUM I** will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non porous surfaces (as indicated in general instructions above). Allow to dry on surface and repeat when mildew growth returns.

**Virucidal Performance**—At 1 oz. / gallon, **QUANTUM I** was evaluated in the presence of 5% serum and 400 ppm hardness and found to be effective against the following viruses: Influenza A (Brazil), Herpes Simplex and vaccinia in inanimate environmental surfaces.

**Wiping-Non-Food Contact Surfaces (such as floors, walls, tables, etc.)** At 1 oz. per 5 1/2 gallon use level, **QUANTUM I** is an effective sanitizer against Staphylococcus aureus and Klebsiella pneumoniae on hard porous and non porous environmental surfaces. Treated surface must remain wet for 60 seconds.

In Accordance with  
1061-0000  
JAN 10 1983

Cross-contamination is of major housekeeping concern not only in hospitals, but in schools, institutions, and industry. QUANTUM I has been formulated to aid in the reduction of cross-contamination in these areas

QUANTUM I is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal, fungicidal, and will prevent the growth of mold and mildew and their odors when used as directed.

QUANTUM I is an effective one-step sanitizer-cleaner for use on non-food contact surfaces.

When used as directed, QUANTUM I will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause odors.

**Precautionary Statements**

**Hazards to Humans and domestic animals**

**DANGER**

Keep out of reach of children. Corrosive. Causes 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 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 RINSE WATER THAT CANNOT BE USED ACCORDING TO LABEL INSTRUCTIONS MUST BE DISPOSED OF ACCORDING TO FEDERAL OR APPROVED STATE PROCEDURES UNDER SUBTITLE C OF THE RESOURCE CONSERVATION AND RECOVERY ACT.

**CONTAINER DISPOSAL**

TRIPLE RINSE (OR EQUIVALENT) THEN OFFER FOR RECYCLING OR RECONDITIONING, OR DISPOSE OF IN A SANITARY LANDFILL, OR BY INCINERATION IF ALLOWED BY STATE AND LOCAL AUTHORITIES.

**GENERAL**

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES

BLST 1

**QUANTUM I**

Disinfectant-Cleaner-Sanitizer-Fungicide  
Mildewstat-Virucide\*-Deodorizer  
for Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness  
(calculated as CaCO<sub>3</sub>) in the presence of 5% serum

**Active Ingredients**

Octyl decyl dimethyl ammonium chloride	3.255%
Dioctyl dimethyl ammonium chloride	1.628%
Didecyl dimethyl ammonium chloride	1.628%
Alkyl (C <sub>14</sub> , 50%, C <sub>12</sub> , 40%, C <sub>10</sub> , 10%) dimethyl benzyl ammonium chloride	4.340%
<b>Inert Ingredients</b>	<b>89.149%</b>
	<b>100.00%</b>

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

<b>EPA Registration No.</b>	46912-
<b>EPA Establishment No.</b>	46912-CU-1
<b>Net Contents</b>	1 Gallon

**MANUFACTURED BY:**

Chemical Systems Technology, Inc. Denver, Colorado  
For Sale For Use And Storage 80239  
By Maintenance Personnel Only

**Disinfectant  
GENERAL**

It is a violation of the Federal Insecticide, Fungicide, and Rodenticide Act to sell or distribute a pesticide product in a manner which is false or misleading labeling.

QUANTUM I disinfectant - cleaner - virucide which is effective in the presence of 5% serum. Apply QUANTUM I to other hard (inanimate) surfaces such as chairs, countertops, with a cloth, mop, thoroughly wet the preliminary cleaning, daily or when use is required.

**Disinfection:** 1 oz per gallon of water for 10 minutes. This has been evaluated for use in hard water up to 400 ppm hardness by the EPA. It is effective against gram positive organisms:

- Pseudomonas
- Staphylococcus
- Salmonella
- Escherichia
- Streptococcus
- Klebsiella
- Enterobacter
- Salmonella
- Streptococcus
- Shigella
- Salmonella
- Serratia

**Fungicidal Control**

QUANTUM I is effective against Trichophyton (fungus) which is commonly found in rooms, dressing facilities etc at hospitals.

**Mold and Mildew Control:** At 1 oz/gallon, QUANTUM I effectively inhibits the growth of mold and mildew on surfaces (as in tile, grout, etc) to dry or shaded areas.

**Virucidal Performance:** At 1 oz per gallon, QUANTUM I was evaluated in the presence of hard water and found to be effective against viruses, influenza, and other hard porous surfaces.

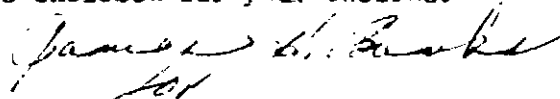
**Sanitizing-Non Food Contact Surfaces (etc):** QUANTUM I is effective against Staphylococcus aureus on hard porous surfaces. Treated surfaces are

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE JAN 10 1983
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input checked="" type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,          and Rodenticide Act, as amended)</i>		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

4. 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-767C)

Enclosures