

MAR 03 1989

Brulin & Company, Inc.
2920 Martindale Avenue
Indianapolis, IN 46205

Attention: John Roudebush

Gentlemen:

Subject: QS4
EPA Registration No. 106-54
Your Submission Dated November 23, 1987
EPA Received Date December 2, 1987

The amendment referred to above, submitted in connection with the Label Improvement Program Notice for Antimicrobial Products Used as Food Contact Surface Sanitizers, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling.
 - a. Delete the statement "Only For Sale To, Use, and Storage By Service Persons."
 - b. Delete the word "milk."
 - c. In the Note to Physician statement, delete the statement "Measures against circulatory shock respiratory depression and convulsion may be needed."
2. The revised Confidential Statement of Formula is acceptable.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of the Federal Insecticide, Fungicide and Rodenticide Act. Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

50286:I:Leavy:LL-15:KENCO:3/1/89:4/10/89:rw:vo:rw

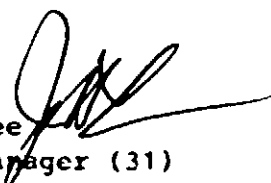
CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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

If you have any questions concerning this letter, please contact Karen M. Leavy at (703) 557-3966.

Sincerely yours,



John H. Lee
Product Manager (31)
Antimicrobial Program Branch
Registration Division (H7504C)

Enclosure

QS4 Label Copy -- Final draft
(1) Center Panel



QS4
LIQUID CONCENTRATE

CLEANER * DISINFECTANT * SANITIZER * DEODORANT
FUNGICIDE (against Pathogenic fungi)

Odorless * Noncorrosive to Food Plant Equipment in Use
Dilutions

ACTIVE INGREDIENTS:

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18)	
dimethyl benzyl ammonium chlorides.....	1.6%
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl	
ammonium chlorides.....	1.6%
INERT INGREDIENTS.....	96.8%
	TOTAL 100.0%



EPA Registration No. 106-54AA
EPA Establishment No. 106-IN-1

~~ONLY FOR SALE TO, USE, AND SERVICE BY PERSONS~~
KEEP OUT
~~KEEP OUT OF REACH OF CHILDREN~~

DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



Manufactured and Sold By:
BRULIN & COMPANY, INC.
1-800-428-7149

Net Contents

[Empty rectangular box for net contents]

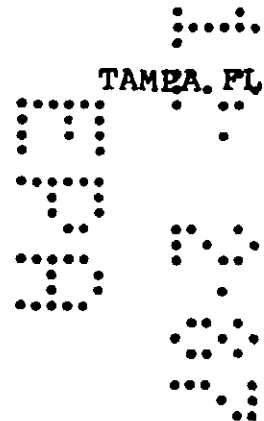
U.S. Gallons

INDIANAPOLIS IN

RICHMOND CA

WESTWOOD NJ

TAMPA FL



ACCEPTED
with COMMENTS
in EPA Letter Detail

MAR 08 1989

106-54

QS4 LABEL COPY -- final draft
(2) LEFT PANEL

DIRECTIONS FOR USE

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

QS4 detergent/disinfectant has been designed specifically for hospitals, nursing homes, schools, food processing plants and other institutions where housekeeping is of prime importance.

DISINFECTION: To disinfect hard inanimate surfaces (such as walls, floors, table tops) apply solution with mop, cloth, sponge or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes.

Dilution Rates: General Disinfection - add 2 ounces QS4 per gallon of water.
Hospital Disinfection - add 3 ounces QS4 per gallon of water.

For heavily soiled areas, a precleaning step is required and recommended. Prepare a fresh solution for each use.

SANITIZATION: To sanitize previously cleaned and rinsed nonporous food contact surfaces, prepare 200 ppm active quaternary QS4 solution by adding 4 ounces QS4 to 5 gallons of water.

Prior to application of the sanitizing solution, gross food particles and soil must be removed by a pre-flush, pre-scrape or pre-soak treatment. Also, preclean the surfaces with a suitable detergent, followed by a potable water rinse before application of the sanitizing solution.

To sanitize immobile items (such as tanks, chopping blocks, counter tops), flood the area with 200 ppm QS4 solution or apply with a cloth or sponge, making sure to wet all surfaces completely for at least 60 seconds. Let air dry. Prepare a fresh solution for each use.

To sanitize mobile items (such as drinking glasses, eating utensils) immerse in 200 ppm QS4 solution for at least 60 seconds, making sure to immerse completely. Remove, drain and let air dry. Prepare a fresh solution daily or more frequently as soil is apparent.

MAR 08 1989
106-57

QS4 Label copy -- final draft
(3) left panel Cont'd

PRECAUTIONARY STATEMENTS
HAZARD TO HUMAN AND DOMESTIC ANIMALS

DANGER

Keep Out of Reach of Children. Causes eye and skin irritation. Do not get in eyes, skin or on clothing. Harmful if swallowed.

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 all contaminated clothing before reuse. If swallowed, drink ~~water~~, 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. ~~Use against circulatory shock, respiratory depression and convulsions may be needed.~~

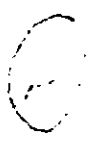
BEST AVAILABLE COPY

MAR 08 1983

106-54

QS4 label copy -- final draft
(4) right panel

QS4 is a cleaner disinfectant and sanitizer designed for general use in schools, food processing plants and light industrial and hospital applications where housekeeping is of prime importance in controlling the hazard of cross contamination. When used as directed, QS4 is formulated to disinfect inanimate hard surfaces (such as walls, floors, sink tops, toilet bowls, tables, chairs and telephones). For larger areas, such as patient care facilities and restrooms, the product is designed for both general cleaning and disinfecting.



In addition QS4 deodorizes those areas which generally are hard to keep fresh smelling, such as garbage storage areas, empty garbage bins and cans, toilet bowls and any other areas which are prone to odors caused by microorganisms.

DISINFECTION - At 2 ounces per gallon dilution, QS4 exhibits effective disinfectant activity against the organisms Staphylococcus aureus and Salmonella choleraesuis.

At this level the product is also fungicidal against the Pathogenic fungi Trichophyton mentagrophytes.

At 3 ounces per gallon, QS4 is an effective hospital disinfectant and demonstrates disinfectant activity against Pseudomonas aeruginosa.

SANITIZATION - When used for sanitation of previously cleaned food equipment or food contact items limit active quaternaries to 200 ppm. At this level NO POTABLE WATER RINSE is required.

RECEIVED
MAR 03 1989
106-54

QS4 label copy -- final draft
(5) right panel cont'd

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE AND DISPOSAL.

STORAGE: Store in a dry place no lower in temperature than 50° F. or higher than 120° F.

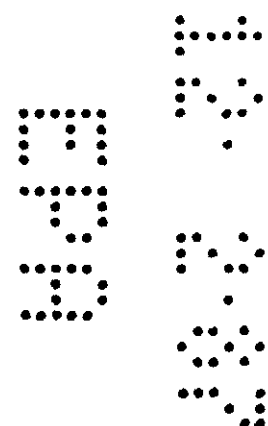
CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse empty container with water. Return metal drum then offer for reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers may be disposed of in a sanitary landfill, incinerated or, if allowed by local authorities, by burning. If burned, stay out of smoke.

PESTICIDE DISPOSAL: Pesticide wastes 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.

(3)

MAR 08 1989

106-54



2038

<p>(A)</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>(A) QS4</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>(A)</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p>(B)</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>(S)</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>(C)</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>(S)</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>(B)</p> <p>_____</p> <p>_____</p> <p>_____</p>

BEST AVAILABLE COPY

MAR 06 1969