

464-700

1/25/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



United States
Environmental Protection
Agency

Office of Pesticide Programs

The Dow Chemical Company
1803 Building
Midland, Mi 48674

JAN 25 2011

Attention: Rhonda Vance-Moeser
Senior Regulatory Specialist

Subject: GLUTEX™ GQ1 Sanitizer and Disinfectant
EPA Registration No. 464-700
Notification Dated December 22, 2010

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification:

- To correct printing error under "Pipeline Pigging and Scraping Operations" section
- To add the statement "Product not registered for this use in the State of California" for the oil use section

General Comments:

Based on a review of the submitted material, the following comments apply:

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,

A handwritten signature in black ink that reads "M Swindell".

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)



The Dow Chemical Company
Midland, MI 48674
U.S.A.

December 22, 2010

Office of Pesticide Programs (7504P)
Document Processing Desk (NOTIF)
U. S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, Virginia 22202-4501

Overnight Mail

RE: NOTIFICATION – GLUTEX™ GQ1 Sanitizer and Disinfectant - EPA Reg. No. 464-700

The Dow Chemical Company (Dow) hereby submits a Notification to modify the label for GLUTEX GQ1 Sanitizer and Disinfectant. The specific change we are requesting is the following:

Correct printing error from last Notification that inadvertently cut off the approved use of Pipeline Piggig and Scraping Operations from the label that was submitted. Labe submitted with this Notification has the use site placed back on label.

- 1) Add the statement "Product not registered for this use in the State of California" for the oil use.

In order for the application to be processed the required Notification statement is included below. **"This Notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject enforcement action and penalties under section 12 and 14 of FIFRA"**

Enclosed are the following documents to support this notification

- 1) Completed application for Pesticide Registration, Form 8570-1
- 2) Required notification statement above.
- 3) One copy of the label with changes highlighted in yellow and two copies of final printed label.

Please contact me if you have any questions or need additional information.

Sincerely,

Rhonda Vance-Moeser, Sr. Regulatory Specialist
1790 Building, Office 226
Midland, MI 48667
Phone: (989) 636-1884
E-mail: rgvmoeser@dow.com

Enclosures



United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 464-700		2. EPA Product Manager Marshall Swindell		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) The Dow Chemical Company/ GLUTEX™ GQ1 Sanitizer & Disinf		PM# 33			
5. Name and Address of Applicant (Include ZIP Code) The Dow Chemical Company 1803 Building Midland, MI 48674 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____			

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification to place approved use back on the label. Approved use was left off label due to printing error when last Notification as filed. Refer to cover letter for required Notification statement

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Rhonda Vance-Moeser	Title Sr. Regulatory Specialist	Telephone No. (Include Area Code) (989) 636-1884
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<p align="center">Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>			6. Date Application Received (Stamped)
2. Signature <i>Rhonda Vance-Moeser</i>	3. Title Sr. Regulatory Specialist		
4. Typed Name Rhonda Vance-Moeser	5. Date <i>Dec. 22, 2010</i>		

KEEP OUT OF REACH OF CHILDREN DANGER

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Personal Protective Equipment

Applicators and other handlers must wear: goggles or face shield, long-sleeve shirt, long pants, shoes, socks, chemical-resistant gloves (such as butyl rubber) and chemical resistant apron.

User Safety Requirements

Follow manufacturer's instructions for cleaning & maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users must wash hands before eating, drinking, chewing gum, or using the toilet. Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE AND HANDLING

GLUTEX GQ1 Sanitizer and Disinfectant is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. GLUTEX GQ1 Sanitizer and Disinfectant can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27° F (-3° C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F (37.8° C) can be tolerated but the preferred maximum storage temperature is about 80° F (26.7° C).

A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® Polymer is suitable for gaskets and packing.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

The product in its undiluted form must not be used in a spray, fogging or aerosol application.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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

Option to use for labels on nonrefillable rigid containers of all sizes.
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Option to use for labels on refillable rigid tote containers.

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning of the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Notice: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

GLUTEX™ GQ1 Sanitizer a

D

Active Ingredient: Glutaraldehyde 14.0%
Alkyl (C14 50%, C12 40%, C16 10%)
dimethyl benzyl ammonium chloride ... 2.5%
Inert Ingredients: 83.5%
Total: 100.0%

It is a violation of Federal

AIR WASHERS AND INDUSTRIAL SCRUBER
This product may be used only in industrial air w GLUTEX GQ1 Sanitizer and Disinfectant shouk of uniform mixing such as the basin area. Additi treated with GLUTEX GQ1 Sanitizer and Disinf GLUTEX GQ1 Sanitizer and Disinfectant can b osmosis membranes (where approved for comp INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fo in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is water in the system weekly or as needed to main Badly fouled systems must be cleaned before tre

CONTINUOUS FEED METHOD
Initial Dose: When the system is noticeably fo in the system.
Subsequent Dose: Maintain this treatment lev per 100 gallons of water in the system per day. Badly fouled systems must be cleaned before tre

SERVICE WATER AND AUXILIARY SYSTEM
GLUTEX GQ1 Sanitizer and Disinfectant shouk added to the system at a point that will allow for t

HEAT TRANSFER SYSTEMS
(Evaporative Condensers, Dairy Sweetwater Sy GLUTEX GQ1 Sanitizer and Disinfectant shouk added to the system at a point of uniform mixi; will be circulated uniformly throughout the syster

INDUSTRIAL WASTEWATER SYSTEMS
(Wastewater Systems, Wastewater Sludge And GLUTEX GQ1 Sanitizer and Disinfectant shou digester. Add 200 to 975 fluid ounces (1.6 to 7.6 g of wastewater or sludge).

PAPER MILLS AND PAPER MILL PROCESS
GLUTEX GQ1 Sanitizer and Disinfectant shouk pump, save-all tank, or white-water tank.

Initial Dose: When the system is noticeably co GLUTEX GQ1 Sanitizer and Disinfectant per me systems should be boiled out prior to initial treat
Subsequent Dose: When microbial control is GLUTEX GQ1 Sanitizer and Disinfectant per m

WATER BASED COATINGS FOR PAPER AI
NOTE: For use in non-food contact coatings onl Use from 0.3 to 1.8 lbs. of GLUTEX GQ1 Sani Disinfectant per metric ton of dry slurry to produ

WATER FLOODS
GLUTEX GQ1 Sanitizer and Disinfectant shouk
Initial Treatment: When the system is noticea to 14.5 gallons GLUTEX GQ1 Sanitizer and Dis
Subsequent Dose: When microbial control i GLUTEX GQ1 Sanitizer and Disinfectant per 1,0

FRAC FLUIDS
Not registered for this use in the State of C GLUTEX GQ1 Sanitizer and Disinfectant redt stimulations. Add GLUTEX GQ1 Sanitizer and Di is being pumped down-hole.
Dose Range: GLUTEX GQ1 Sanitizer and Dis depending on the degree of bacterial fouling in t

DRILLING, COMPLETION, AND WORKOVI
GLUTEX GQ1 Sanitizer and Disinfectant shouk
Initial Treatment: Add 150 to 3,000 ppm GLU 100 barrels of fluid) to a freshly prepared fluid de
Maintenance Dosage: Maintain a concentrat GLUTEX GQ1 Sanitizer and Disinfectant per 10

PACKER FLUIDS
GLUTEX GQ1 Sanitizer and Disinfectant shouk 1,800 ppm GLUTEX GQ1 Sanitizer and Disinf prepared fluid depending on the severity of cont

OIL PRODUCTION AND TRANSMISSION PI
Product not registered for this use in the S GLUTEX GQ1 Sanitizer and Disinfectant shou conducted to ensure maximum distribution of sufficient amount of biocide to detect/measure a be a reduction in bacterial counts and/or reduc and Disinfectant with an appropriate solvent in range of 500 to 5,000 ppm based on the volume

GAS PRODUCTION AND TRANSMISSION F
GLUTEX GQ1 Sanitizer and Disinfectant shou conducted to ensure maximum distribution of sufficient amount of biocide to detect/measure a be a reduction in bacterial counts and/or reduc and Disinfectant with an appropriate solvent in range of 500 to 5,000 ppm based on the volume

GAS STORAGE WELLS AND SYSTEMS
Individual injection wells should be treated with 15,000 ppm GLUTEX GQ1 Sanitizer and Disinf injected (during the summer). Injections shouk 1 Individual drips should be treated with a sufficien GLUTEX GQ1 Sanitizer and Disinfectant when dil control.

HYDROTESTING
Water used to hydrotest pipelines or vessels GLUTEX GQ1 Sanitizer and Disinfectant per 1,

PIPELINE PIGGING AND SCRAPING OPER
Add GLUTEX GQ1 Sanitizer and Disinfectant tc and contained between the scraper and a t concentration of 0.3 to 3% (0.29 to 2.9 gallon pipeline and the severity of biofouling.

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • If the person is fully alert and cooperative, have the person rinse mouth with plenty of water. Have the patient drink 4 to 10 ounces (120-300 mL) of water or milk. • Do not induce vomiting. Do not attempt mouth rinse if the person has respiratory distress, altered mental status, or nausea and vomiting. • Call a physician and/or transport to emergency facility immediately. See Note to Physician.
IF IN EYES	<ul style="list-style-type: none"> • Wash immediately and continuously with flowing water for at least 30 minutes. • Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. • Call a poison control center or a doctor immediately for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or a doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible • Call a poison control center or a doctor for further treatment advice.
HOT LINE NUMBER	
IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400. Have product container or label with you when calling a poison control center or doctor or going for treatment.	
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.	

E.P.A. Registration No. 464-700

E.P.A. Est. XXXXX-XX-XXX

Produced for:



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

(989)636-4400

© TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Made in U.S.A.

NET CONTENTS: XXX gallons
NET WT: XXX lb / XXX kg
LOT NO:

Sanitizer and Disinfectant

DIRECTIONS FOR USE

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

% AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components. GLUTEX GQ1 Sanitizer and Disinfectant should be added at the application rates described below to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with GLUTEX GQ1 Sanitizer and Disinfectant. Under these conditions, blowdown should be discontinued for up to 24 hours.

% GLUTEX GQ1 Sanitizer and Disinfectant can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

% **INTERMITTENT (SLUG DOSE) METHOD**
Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water in the system weekly or as needed to maintain control.
 Badly fouled systems must be cleaned before treatment is begun.

% **CONTINUOUS FEED METHOD**
Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water in the system.
Subsequent Dose: Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water in the system per day.
 Badly fouled systems must be cleaned before treatment is begun.

% **SERVICE WATER AND AUXILIARY SYSTEMS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

% **HEAT TRANSFER SYSTEMS**
 (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers And Retorts, And Pasteurizers And Warmers)
 GLUTEX GQ1 Sanitizer and Disinfectant should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

% **INDUSTRIAL WASTEWATER SYSTEMS**
 (Wastewater Systems, Wastewater Sludge And Wastewater Holding Tanks)
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 200 to 975 fluid ounces (1.6 to 7.6 gallons) (1,600 to 7,600 ppm product) of GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 gallons of wastewater or sludge.

% **PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank.
Initial Dose: When the system is noticeably contaminated, add 1.5 to 9.0 lbs of GLUTEX GQ1 Sanitizer and Disinfectant per ton or 0.76 to 4.5 Kg of GLUTEX GQ1 Sanitizer and Disinfectant per metric ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.
Subsequent Dose: When microbial control is evident, add 0.9 to 6.0 lbs of GLUTEX GQ1 Sanitizer and Disinfectant per ton or 0.46 to 3.0 Kg of GLUTEX GQ1 Sanitizer and Disinfectant per metric ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

% **WATER BASED COATINGS FOR PAPER AND PAPERBOARD**
 NOTE: For use in non-food contact coatings only.
 Use from 0.3 to 1.8 lbs. of GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 lbs. of dry powder or 0.3 to 1.8 Kg of GLUTEX GQ1 Sanitizer and Disinfectant per metric ton of dry slurry to produce a concentration from 300 to 1,800 ppm as product (based on slurry solids) in the mixed slurry.

% **WATER FLOODS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to a water flood system at a point of uniform mixing.
Initial Treatment: When the system is noticeably contaminated, add 300 to 15,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant to the system (0.3 to 14.5 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 gallons flood water). Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 60 to 15,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.06 to 14.5 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

% **FRAC FLUIDS**
Not registered for this use in the State of California.
 GLUTEX GQ1 Sanitizer and Disinfectant reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add GLUTEX GQ1 Sanitizer and Disinfectant to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.
Dose Range: GLUTEX GQ1 Sanitizer and Disinfectant should be added at a rate of 360 to 17,900 ppm (3.5 - 172.5 gallons per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

% **DRILLING, COMPLETION, AND WORKOVER FLUIDS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.
Initial Treatment: Add 150 to 3,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.6 to 12.2 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.
Maintenance Dosage: Maintain a concentration of 150 to 3,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant by adding 0.6 to 12.2 gallons of GLUTEX GQ1 Sanitizer and Disinfectant per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

% **PACKER FLUIDS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 150 to 1,800 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.6 to 7.3 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

% **OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**
Product not registered for this use in the State of California.
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to an oil production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of GLUTEX GQ1 Sanitizer and Disinfectant throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the GLUTEX GQ1 Sanitizer and Disinfectant with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

% **GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**
 GLUTEX GQ1 Sanitizer and Disinfectant should be added to an gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of GLUTEX GQ1 Sanitizer and Disinfectant throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the GLUTEX GQ1 Sanitizer and Disinfectant with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

% **GAS STORAGE WELLS AND SYSTEMS**
 Individual injection wells should be treated with sufficient quantity of GLUTEX GQ1 Sanitizer and Disinfectant to produce a concentration of 1,500 to 15,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.
 Individual drips should be treated with a sufficient quantity of GLUTEX GQ1 Sanitizer and Disinfectant to produce a concentration of 600 to 6,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

% **HYDROTESTING**
 Water used to hydrotest pipelines or vessels should contain 300 to 12,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.3 to 11.8 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

% **PIPELINE PIGGING AND SCRAPING OPERATIONS**
 Add GLUTEX GQ1 Sanitizer and Disinfectant to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient GLUTEX GQ1 Sanitizer and Disinfectant should be added to produce a concentration of 0.3 to 3% (0.29 to 2.9 gallon GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, IN AND EQUIPMENT

Not registered for this use in the State of California. **DO NOT USE THIS PRODUCT ON FOOD OR FEED**
 GLUTEX GQ1 Sanitizer and Disinfectant is suitable for use on a wide variety of concrete, plastic, and glazed tile.

Disinfection
 For disinfection against the following pathogens:

- Klebsiella pneumoniae*, (ATCC 4352) Escherichia Salmonella
- Pasteurella multocida*, (ATCC 8747) Clostridium Mycoplasma
- Campylobacter jejuni*, (ATCC BAA-1062) Staphylococcus Salmonella
- Haemophilus paragallinarum*, (ATCC 29545)
- Mycoplasma gallisepticum*, (ATCC 15302)
- Pseudomonas aeruginosa*, (ATCC 15442)

For disinfection against the following viruses:

- Swine Influenza Virus (H1N1), (ATCCVR-99)
- Porcine parvovirus, (ATCC VR-742)
- Avian Infectious Laryngotracheitis Virus, (SPAFAS 547316)
- Porcine Respiratory Reproductive Syndrome Virus, (Arko Labs, Item Number M)

Prepare disinfection solution according to the following procedure:

Disinfection solution preparation:

- Mix 1 fluid ounce of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water containing 0.13% total active ingredients.
- For application against *Porcine parvovirus*, mix 2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water.
- Apply by sponge, mop, spray, fogging or immersion depending upon the surface.
- Allow prepared solution to stand on surface for at least 10 minutes, or until the surface is completely dry.
- Fresh solution should be prepared daily or more often if the solution becomes cloudy.

Sanitization
 For sanitization against the following pathogens:

- Klebsiella pneumoniae*, (ATCC 4352) Salmonella
- Staphylococcus aureus*, (ATCC 6538) Pseudomonas

For sanitization against the following viruses:

- Infectious bursal disease (Infectious bursa; disease, Lukert strain) SARS-ess
- Avian influenza (H6N2 and H5N1), (ATCC VR-799) Porcine cit

For sanitization against the following fungus: *Aspergillus fumigatus*, (ATCC 9642)

Prepare sanitizing solution according to the following procedure:

Sanitizing solution preparation:

- Mix 0.45 to 1.8 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water containing 0.06 to 0.24% total active ingredients.
- For application against *Porcine circovirus*, mix 0.9 to 2.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water.
- Apply by sponge, mop, spray, fogging or immersion depending upon the surface.
- Allow to stand for at least five minutes, or until thoroughly dried.
- Fresh solution should be prepared daily or more often if the solution becomes cloudy.

Farm Equipment And Animal Housing Buildings
 (Poultry & turkey grow-out houses, laying houses, swine production and housing)

- Remove all poultry and other animals and feed from the premises. Remove all troughs. If not removed, all treated feeders and waterers must be thoroughly rinsed.
- Remove all litter and manure from floors and other surfaces. Remove gross filth and clean surfaces with a suitable detergent and rinse with water.
- Prepare either disinfection or sanitizing solution depending upon the organism. GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
- Using suitable commercially available equipment, saturate all surfaces with the types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removal.
- Allow to stand for at least 5 minutes for sanitization or 10 minutes for disinfection.
- Ventilate enclosed spaces.
- Do not repopulate with poultry or other animals, or use equipment until treated surfaces are completely dry.

Hatchers, Setters, and Chick Processing Facilities
 Not for treatment of hatcheries which contain chicks/eggs.

- For disinfection or sanitizing of environmental surfaces prior to introduction of chicks, clean vehicles and enclosures.
- Clean out feathers, fluff, or other debris. Remove gross filth and soil deposit with suitable detergent and rinse with water.
- Prepare either disinfection or sanitizing solution depending upon the organism. GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
- Thoroughly saturate all surfaces with the prepared solution. Immerse all handling and restraining animals, as well as forks, shovels, and scrapers used for removal.
- Allow to stand for at least 5 minutes for sanitization or 10 minutes for disinfection.
- Ventilate thoroughly before reuse.
- Note:** For treatment of air and surfaces in high humidity hatcheries and setter houses or hatcheries, using appropriate application equipment. Fogging of poultry houses outside the poultry house when applying the fog. Wait at least 3 hours before re-entry.
- Note:** For treatment of air and surfaces in low humidity hatcheries with chilled application equipment. Fogging of poultry houses should only be done in such a way as to avoid direct contact with poultry. Wait at least 3 hours before re-entry after application.

Trays, Racks, Carts, Chick Boxes, Cages and Other Hard Surfaces

- Remove all filth and heavy debris from surfaces by scraping or washing.
- Prepare either disinfection or sanitizing solution depending upon the organism. GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
- Apply by spraying or immersion, and allow to drain and air-dry. Immerse all handling and restraining animals, as well as forks, shovels, and scrapers used for removal.
- Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer if the surfaces are heavily soiled.
- Ventilate enclosed spaces.
- Do not repopulate with poultry or other animals, or use equipment until treated surfaces are completely dry.

Trucks and other Vehicles

- Remove all filth and heavy debris from surfaces by scraping or washing.
- Prepare either disinfection or sanitizing solution depending upon the organism. GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
- Apply by spraying or immersion, and allow to air-dry.
- Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer if the surfaces are heavily soiled.
- Ventilate enclosed spaces.
- Do not repopulate with poultry or other animals, or use equipment until treated surfaces are completely dry.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, IN AND EQUIPMENT
Not registered for this use in the State of California.

- Remove all heavy filth and soil deposits from surfaces using a suitable cleaner.
- Prepare either disinfection or sanitizing solution by mixing the appropriate amount of product with water. Refer to solution preparation above.
- Using suitable commercially available equipment, saturate all surfaces with the types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removal.
- Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer if the surfaces are heavily soiled.
- Ventilate enclosed spaces.
- Do not repopulate with poultry or other animals, or use equipment until treated surfaces are completely dry.

Disinfectant

INSTRUCTIONS FOR USE

Use this product in a manner inconsistent with its labeling.

ITEMS/RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

Use in air washer systems which have mist-eliminating components.
Use at the application rates described below to a water treatment system at a convenient point in a closed circulation system (SLUG DOSE) or continuously. Badly fouled systems can be shock treated under these conditions, but should be discontinued for up to 24 hours.
Use in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membrane (the membrane manufacturer) and associated distribution systems.

Use 4.2 to 8.5 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water.

Add 1.7 to 4.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water.

Use 4.2 to 8.5 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water.

Provide a continuous feed of 0.8 to 4.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per 100 gallons of water.

Use at the same application rates, and in the same manner as described above. It should be used throughout the system.

HYDROSTATIC STERILIZERS AND RETORTS, AND PASTEURIZERS AND WARMERS

Use at the same application rates, and in the same manner as described above. It should be used in a basin area, sump area, or other reservoir or collecting area from which the treated water is drawn.

WATER HOLDING TANKS

Use in a wastewater system or sludge at a convenient point of uniform mixing such as the bottom of a holding tank (0.60 to 7,600 ppm product) of GLUTEX GQ1 Sanitizer and Disinfectant per 1,000 gallons.

SLURRY SYSTEMS

Use in a paper making system at a point of uniform mixing such as the beaters, broke chest or other mixing equipment. Add 1.5 to 9.0 lbs of GLUTEX GQ1 Sanitizer and Disinfectant per ton or 0.76 to 4.5 Kg of product (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled equipment should be cleaned.

Add 0.9 to 6.0 lbs of GLUTEX GQ1 Sanitizer and Disinfectant per ton or 0.46 to 3.0 Kg of product (dry basis) as a slug dose as necessary to maintain control.

FRUIT BOARD

Use Disinfectant per 1,000 lbs. of dry powder or 0.3 to 1.8 Kg of GLUTEX GQ1 Sanitizer and disinfection from 300 to 1,800 ppm as product (based on slurry solids) in the mixed slurry.

Use in a water flood system at a point of uniform mixing. Add 300 to 15,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant to the system (0.3 to 1.8 Kg per 1,000 gallons flood water). Repeat until control is achieved. Add 60 to 15,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.06 to 14.5 gallons of product per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

Use in a wellhead injection system to prevent bacterial contamination and degradation of fracturing fluids and gels used in oil and gas wells. Add 360 to 17,900 ppm (3.5 - 172.5 gallons per 10,000 gallons of water).

DRILLING FLUIDS

Use in a drilling fluid system at a point of uniform mixing such as the circulating mud tank. Add 0.6 to 12.2 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 100 barrels of fluid, or as needed, depending on the severity of contamination.

Use in a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 150 to 3 to 7.3 gallons GLUTEX GQ1 Sanitizer and Disinfectant per 100 barrels of fluid to a freshly cemented well. Seal the treated packer fluid by the well between the casing and production tube.

INDUSTRIAL PIPELINES AND SYSTEMS

Use in an oil production or transmission line via direct injection. The application should be made at the back end of the pipeline system. Criteria for success of the treatment will vary with application rates. To facilitate application, it may be desirable to dilute the GLUTEX GQ1 Sanitizer with water before use. The concentration in the solvent should not fall below an active concentration in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

INDUSTRIAL PIPELINES AND SYSTEMS

Use in a gas production or transmission line via direct injection. The application should be made at the back end of the pipeline system. Criteria for success of the treatment will vary with application rates. To facilitate application, it may be desirable to dilute the GLUTEX GQ1 Sanitizer with water before use. The concentration in the solvent should not fall below an active concentration in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

Use a quantity of GLUTEX GQ1 Sanitizer and Disinfectant to produce a concentration of 1,500 to 10,000 ppm in the water present in the formation. Injection should take place before gas is produced, or as needed to maintain control.

Use a quantity of GLUTEX GQ1 Sanitizer and Disinfectant to produce a concentration of 600 to 6,000 ppm in the water present in the drip. Injections should be repeated weekly, or as needed to maintain control.

Use 300 to 12,000 ppm GLUTEX GQ1 Sanitizer and Disinfectant (0.3 to 11.8 gallons of product per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

Use water immediately following the scraper (ideally this water volume can be kept to a minimum). Sufficient GLUTEX GQ1 Sanitizer and Disinfectant should be added to produce a concentration of 1,500 to 10,000 ppm (1.5 to 10 gallons of product per 100 gallons water), depending on the length of the system.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, FARM, ANIMAL, AND POULTRY HOUSING FACILITIES AND EQUIPMENT

Not registered for this use in the State of California.
DO NOT USE THIS PRODUCT ON FOOD OR FEED

GLUTEX GQ1 Sanitizer and Disinfectant is suitable for use on a wide variety of surfaces including stainless steel, aluminum, painted concrete, plastic, and glazed tile.

Disinfection

For disinfection against the following pathogens:

Klebsiella pneumoniae, (ATCC 4352)

Pasteurella multocida, (ATCC 8747)

Campylobacter jejuni, (ATCC BAA-1062)

Haemophilus paragalinarum, (ATCC 29545)

Mycoplasma gallisepticum, (ATCC 15302)

Pseudomonas aeruginosa, (ATCC 15442)

Escherichia coli, (ATCC 11229)

Salmonella enterica, (ATCC 10708)

Clostridium perfringens, (ATCC 13124)

Mycoplasma hyopneumoniae, (ATCC 25934)

Staphylococcus aureus, (ATCC 6538)

Salmonella enterica, (ATCC 13076)

For disinfection against the following viruses:

Swine Influenza Virus (H1N1), (ATCCVR-99)

Porcine parvovirus, (ATCC VR-742)

Avian Infectious Laryngotracheitis Virus, (SPAFAS 547316)

Porcine Respiratory Reproductive Syndrome Virus, (Arko Labs, Item Number MS036N04075)

Prepare disinfection solution according to the following procedure:

Disinfection solution preparation:

1. Mix 1 fluid ounce of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water (8 mls per liter) to produce a solution containing 0.13% total active ingredients.
2. For application against *Porcine parvovirus*, mix 2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water (16 mls per liter, a 1:64 dilution of the product).
3. Apply by sponge, mop, spray, fogging or immersion depending upon the surface to be disinfected.
4. Allow prepared solution to stand on surface for at least 10 minutes, or until thoroughly dried.
5. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled.

Sanitization

For sanitization against the following pathogens:

Klebsiella pneumoniae, (ATCC 4352)

Staphylococcus aureus, (ATCC 6538)

Salmonella choleraesuis, (ATCC 10708)

Pseudomonas aeruginosa, (ATCC 15442)

For sanitization against the following viruses:

Infectious bursal disease (Infectious bursa disease, Lukert strain)

Avian influenza (H6N2 and H5N1), (ATCC VR-799)

SARS-associated coronavirus, (SARS-CoV, ZeptoMetric)

Porcine circovirus, (American Biotech Laboratories)

For sanitization against the following fungus: *Aspergillus fumigatus*, (ATCC 36607)

Prepare sanitizing solution according to the following procedure:

Sanitizing solution preparation:

1. Mix 0.45 to 1.8 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water (3.5 to 14.1 milliliters per liter) to produce a solution containing 0.06 to 0.24% total active ingredients.
2. For application against *Porcine circovirus*, mix 0.9 to 2.2 fluid ounces of GLUTEX GQ1 Sanitizer and Disinfectant per gallon of water (6.9 to 17.3 milliliters per liter) to produce a solution containing 0.12 to 0.293% total active ingredients.
3. Apply by sponge, mop, spray, fogging or immersion depending upon the surface to be sanitized.
4. Allow to stand for at least five minutes, or until thoroughly dried.
5. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled.

Farm Equipment And Animal Housing Buildings

(Poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings)

1. Remove all poultry and other animals and feed from the premises. Remove all portable equipment and empty all feeders and water troughs. If not removed, all treated feeders and waterers must be thoroughly rinsed with potable water prior to re-use.
2. Remove all litter and manure from floors and other surfaces. Remove gross filth and soil deposits from surfaces prior to treatment. Pre-clean surfaces with a suitable detergent and rinse with water.
3. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
4. Using suitable commercially available equipment, saturate all surfaces with the prepared solution. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
5. Allow to stand for at least 5 minutes for sanitization or 10 minutes for disinfection.
6. Ventilate enclosed spaces.
7. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried.

Hatcheries, Setters, and Chick Processing Facilities

Not for treatment of hatcheries which contain chicks/eggs.

1. For disinfection or sanitizing of environmental surfaces prior to introduction of eggs: Remove all animals and feed from premises/vehicles and enclosures.
2. Clean out feathers, fluff, or other debris. Remove gross filth and soil deposits from surfaces prior to treatment. Pre-clean surfaces with a suitable detergent and rinse with water.
3. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
4. Thoroughly saturate all surfaces with the prepared solution. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
5. Allow to stand for at least 5 minutes for sanitization or 10 minutes for disinfection.
6. Ventilate thoroughly before reuse.
7. **Note:** For treatment of air and surfaces in high humidity hatcheries and setters with water spray cooling: Fog or atomize this solution into setters or hatcheries, using appropriate application equipment. Fogging of poultry houses should only be done in such a way that the operator is outside the poultry house when applying the fog. Wait at least 3 hours before re-entry after application.
8. **Note:** For treatment of air and surfaces in low humidity hatcheries with chilled coil cooling: Fog or atomize this product using appropriate application equipment. Fogging of poultry houses should only be done in such a way that the operator is outside the poultry house when applying the fog. Wait at least 3 hours before re-entry after application.

Trays, Racks, Carts, Chick Boxes, Cages and Other Hard Surfaces

1. Remove all filth and heavy debris from surfaces by scraping or washing.
2. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Apply by spraying or immersion, and allow to drain and air-dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
4. Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried.

Trucks and other Vehicles

1. Remove all filth and heavy debris from surfaces by scraping or washing.
2. Prepare either disinfection or sanitizing solution depending upon the organisms being treated by mixing the appropriate amount of GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Apply by spraying or immersion, and allow to air-dry.
4. Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried.

DISINFECTING OR SANITIZING NON-FOOD CONTACT SURFACES, INDUSTRIAL EQUIPMENT AND BUILDINGS

Not registered for this use in the State of California.

1. Remove all heavy filth and soil deposits from surfaces using a suitable cleaner.
2. Prepare either disinfection or sanitizing solution by mixing the appropriate amount of GLUTEX GQ1 Sanitizer and Disinfectant with water. Refer to solution preparation above.
3. Using suitable commercially available equipment, saturate all surfaces with the prepared solution. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
4. Allow to stand for at least 5 minutes for sanitization or 10 minutes or for longer for disinfection.
5. Ventilate enclosed spaces.
6. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried.