



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

90270-1

Date of Issuance:

11/4/15

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Fabguard

Name and Address of Registrant (include ZIP Code):

Ana Rodriguez-Koster  
Fabco Industries, Inc.  
66 Central Ave.  
Farmingdale, NY 11735

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

*E. Miederhoff*  
Eric Miederhoff  
Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Date:

11/4/15

3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 90270-1.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated October 28, 2015

If you have any questions, please contact Emilia Oiguenblik by phone at 703 347 0199 or Eric Miederhoff at 703 347 8028.

Enclosure: Stamped label, Chemistry review, Acute tox. review, Efficacy review

11/04/2015

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 90270-1

# FABGUARD

**ACTIVE INGREDIENT:**

3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride ..... 0.157%

**OTHER INGREDIENTS**..... 99.843%**TOTAL:** 100.0%

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

- FABGUARD is an open cell foam product for the treatment/reduction of coliform bacteria in stormwater.
- FABGUARD reduces coliform bacteria found in stormwater, industrial wastewater and municipal wastewater.
- FABGUARD is an antimicrobial product that reduces coliform bacteria found in stormwater, industrial wastewater and municipal wastewater.
- FABGUARD contains an antimicrobial agent that is effective in reducing coliform bacteria found in stormwater, industrial wastewater and municipal wastewater.
- FABGUARD has antimicrobial capabilities that make it effective as a filtration media to reduce coliform bacteria found in stormwater, industrial wastewater and municipal wastewater.
- FABGUARD offers engineered [field] solutions for reducing coliform bacteria in stormwater.
- FABGUARD offers engineered field solutions for reducing coliform bacteria in stormwater, industrial wastewater and municipal wastewater.
- FABGUARD can be engineered using controlled test parameters (such as modifying flow rates and coliform bacteria concentration) to meet your performance requirements.
- Under a controlled set of parameters, FABGUARD offers reproducible antimicrobial performance results through engineered solutions.
- FABGUARD is designed to assist water systems in meeting Total Maximum Daily Load Limits (TMDL's) for coliform bacteria.
- When properly installed and maintained, FABGUARD significantly reduces coliform bacteria.

## DIRECTIONS FOR USE

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

Do not use for treatment of potable and/or drinking water.

For stormwater, industrial wastewater, and municipal wastewater treatment only.

FABGUARD is installed as an independent filtration media for the following applications:

- Underground, single pass, storm water filtration systems including catch basin inserts, filtration beds, filtration units, cartridges, filtration layers and helix segments
- Industrial wastewater filtration systems: including cartridges, vessels for batch or continuous operations, and filtration panels for treatment of industrial discharges, and process water, excluding drinking and potable water.
- Municipal wastewater filtration: systems for treatment of secondary or tertiary municipal sewage treated effluent, excluding drinking and potable water. FABGUARD must not be used as a stand-alone treatment for raw sewage.

The sizing and installation directions for FABGUARD will vary according to the Fabco product used.

Fabco stormwater filtration products can be applied in either decentralized or centralized treatment approach. Our products are uniquely designed to function effectively in a variety of climates and drainage system designs.

Using decentralized treatment methods, specific pollutants like bacteria are targeted at the catchbasin level with adjustable filter inserts installed directly into the opening of an existing drainage structure, e.g., catchbasin drain inlets. Examples of Fabco products designed for a decentralized treatment approach include: StormBasin and StormPod

Centralized treatment methods are sub-surface vaults installed at the outfall of a stormwater pipe system. Fabco vault systems are purposely designed to handle the large volumes of stormwater at this end of pipe location prior to discharge into surface waters or infiltration to ground water. Examples of Fabco products designed for a centralized treatment approach include: StormSafe and Helix filter vaults

The FABGUARD filter media is available in many different forms to support these products:

- 1) FABGUARD Filter Cartridges: StormBasin & StormPod units which are decentralized treatment methods. StormSafe vault products – centralized or end-of-pipe solutions
- 2) FABGUARD filter Segments: Helix filter vault and other site specific designs– Centralized or end-of-pipe solution
- 3) Foam pads of various sizes and shapes: Custom product designs which can be used in a non-standard decentralized or centralized application

In all cases, the FABGUARD media will be contained or packaged to prevent the release of loose material.

Table: The basis for the designs:

Form: Cartridge	FABGUARD	Cartridge Count	FABGUARD Volume (ft <sup>3</sup> )	Max flow rate - gpm @ 6" of head	Max flow rate - cfs @ 6" of head
	One (1) cartridge	1	0.524	115	0.26
	Two (2) cartridges	2	1.048	230	0.52
	Three (3) cartridges	3	1.572	345	0.78
	Four (4) cartridges	4	2.096	460	1.04
	Five (5) cartridges	5	2.62	575	1.3
	Six (6) cartridges	6	3.144	690	1.56
	Seven (7) Cartridges	7	3.668	805	1.82
	Eight (8) cartridges	8	4.192	920	2.08
	Nine (9) cartridges	9	4.716	1035	2.34
	Ten (10) cartridges	10	5.24	1150	2.6
Form: Helix segments	FABGUARD		FABGUARD Volume (ft <sup>3</sup> )	Max flow rate - gpm @ 15" of head	Max flow rate - cfs @ 15" of head
	5 segments		9.287	1346.50	3.00
	10 segments		18.574	2693.00	6.00
	15 segments		27.861	4039.50	9.00

FABGUARD density (0.0227 g/mL), Active Ingredient: 0.0157% by weight.

gpm = gallons per minute

cfs=cubic feet per second

ft<sup>3</sup> = cubic feet

Refer to Product User Manuals for additional information.

Sizing/FABGUARD configuration

FABGUARD Filter Cartridges:

Fabco’s replaceable filter cartridges are fabricated with a fixed volume of FABGUARD material and have a maximum treatment flow rate as specified in the table. Where space and design allows, multiple cartridges may be combined in a system to increase the treatment flow rate. Refer to the user’s manual for information on the number of cartridges used by your system. The filter cartridges are replaceable but the FABGUARD filter media is not user serviceable. Used cartridges should be disposed of properly according to local, state and Federal regulations.

## FABGUARD Filter segments:

FABGUARD filtering material is also available as a filter segment. The filter segments can be used in the Helix vault systems which are a centralized or end-of-pipe treatment method or other adaptations of the Helix filter column concept.

Normally 5 or more filter segments are used in a filtering design. Consult your user guide or operation manual for information on the model number and quantity of segments needed in your system. Complete filter segments are user replaceable but the used segment itself is not serviceable. Used segments should be disposed of properly according to local, state and Federal regulations.

## Installation/product usage

StormBasin and StormPod units use FABGUARD filtering cartridges and are designed to be installed into an existing storm drain inlet without requiring any modification or construction on the drain. They are both considered a decentralized treatment method as these units are installed at the street level and intercept and treat the runoff water as it enters the drain and prior to the underground stormwater piping system. Standard sized StormBasins and StormPod units normally use 1 or 2 FABGUARD filter cartridges.

The vault designs with FABGUARD come in 2 standard designs: StormSafe and Helix. The StormSafe uses FABGUARD filter cartridges while the Helix uses multiple filter segments.

These two filtration systems are typically designed to filter the water discharge flow of a two-year, 24-hour design storm and reduce coliform bacteria contamination in the water runoff. Fabco Industries technicians or trained engineers determine each filtration system's discharge flow from calculations based on the contributing watershed. Designers also determine the site coliform bacterial contamination using historical baseline data obtained from runoff sampling.

FABGUARD filtration systems are appropriately sized based on the water quality treatment flow rate and coliform bacterial contamination data. As most contamination is contained in the initial runoff (first flush), the FABGUARD system is not sized to treat peak discharge from the watershed and will incorporate an internal bypass to handle peak discharge.

FABGUARD material is used for industrial wastewater filtration. Typical deployments for industrial applications involve filtration cartridges and vessels, where the FABGUARD media is housed in prefabricated housings. The design and sizing of these filtration systems is based on the hydraulics and pollutant data for the site as well as operating and/or discharge requirements.

Municipal wastewater treatment applications use filtration beds of the FABGUARD material installed after secondary treatment systems for the abatement of residual coliform bacterial concentration. The filtration systems are designed to handle operating flow rates and reduce coliform bacterial concentration to allow discharge in compliance with existing regulations.

Fabco Industries provides the user with customized installation instructions in order to allow FABGUARD filtration systems to effectively perform their filtration function. Non-compliance with installation instructions will void all product warranties.

### Inspection and Maintenance

A plan for regularly scheduled inspections must be established for each installation of FABGUARD systems. The maintenance schedule for each installation may vary based on watershed conditions (see User's Manual). Gloves should be worn during all inspection, maintenance and replacement activities.

FABGUARD filtration systems will collect trash, debris, and sediment over the course of the deployment. To maintain the antimicrobial performance, each FABGUARD system must be inspected for hydraulic performance on a regular basis. In addition, each system must be cleaned at least once per year, or more frequently if visual inspection shows visible trash, debris, or sediment (please refer to User's Manual).

Inspections must occur: (1) Quarterly during the calendar year; and, (2) after major storms.

Visual inspection must include observation for settled trash and debris on the filter system, standing water, and any other abnormalities. Major maintenance must be completed if determined necessary following inspections of the FABGUARD filtration system. Major maintenance includes such steps as cleaning/vacuuming trash and debris, hydraulic testing, sediment removal, and rotation/replacement of the FABGUARD material.

Due to the absence, or limited presence, of sediment and coarse contaminants in industrial and municipal wastewater treatment applications, a visual inspection must be performed every month to verify the structural integrity of the filtration system and its required operational hydraulic performance.

A complete description of the inspection and maintenance process is found in the FABGUARD User's Manual. Non-compliance with proper inspection and maintenance instructions will void all product warranties.

### Replacement

The FABGUARD filtration systems maintain their antimicrobial efficacy over the life of the product, however efficacy can be affected by physical factors such as sediment coating, oil absorption, trash accumulation, and general oxidation.

To maintain efficacy, a maintenance program must be implemented throughout the life of the FABGUARD filtration system. In general, replacing the FABGUARD filters each year will ensure proper operation of the filtration system.

Depending on site conditions, longer maintenance cycles can be incorporated. Contact Fabco Industries for a recommended maintenance schedule.

## STORAGE AND DISPOSAL

Do not contaminate food or feed by improper storage and disposal.

**Pesticide Storage:** Always store pesticides in the original container. Store in a dry area with ambient temperature below 95°F (35°C). When in storage, avoid extended or frequent exposure to direct natural or artificial light. Keep in original packaging until ready to use. If necessary, repair any broken containers promptly.

**Pesticide Disposal:** Dispose of the FABGUARD material at an approved waste disposal facility.

### Container Handling:

#### Individual Filter Materials:

Non-reusable filter components. Do not reuse or replace any components that make up this filter assembly. Offer for recycling if available. If recycling is not available, place entire filter in plastic bag, seal bag and place in an outdoor trash receptacle (dumpster).

#### Shipping Container Materials:

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

Notice: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions. OSHA regulations need to be followed in order to prevent work-related injuries.



Manufactured by:



Fabco Industries, Inc.  
66 Central Ave.  
Farmingdale, NY 11735

EPA Reg No. 90270-\_\_\_\_\_  
EPA Est. No. \_\_\_\_\_

Net Contents: \_\_\_\_\_

[Batch Code:\_\_\_\_\_] [Lot Number:\_\_\_\_\_]