



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

MAR -1 2016

REPLY TO THE ATTENTION OF:

LC-8J

CERTIFIED MAIL 7011 1150 0000 2639 2529
RETURN RECEIPT REQUESTED

Mr. Thomas Higgins
Co-Chairman, CEO and President
AP Goldshield, LLC
9570 Pan American Drive
El Paso, Texas 79927

Re: In the matter of: AP Goldshield, LLC
Docket number: **FIFRA-05-2016-0005**

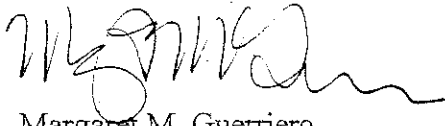
Dear Mr. Higgins:

I have enclosed the Complaint filed by the U.S. Environmental Protection Agency against AP Goldshield, LLC under Section 7 of FIFRA, 7 U.S.C. § 136l(a), the attachments to the Complaint, and a copy of the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation/Termination or Suspension of Permits (Consolidated Rules), 40 C.F.R. Part 22.

If you would like to request a hearing, you must do so in your answer to the Complaint. Please note that if you do not file an answer with the Regional Hearing Clerk (E-19J), U.S. EPA, Region 5, 77 West Jackson Boulevard, Chicago, Illinois 60604 within 20 days of your receipt of this Complaint, a default order may be issued and the proposed civil penalty will become due 30 days later. If you choose to file an answer, you also must mail a copy of it to Susan Perdomo, Associate Regional Counsel (C-14J), U.S. EPA, 77 West Jackson Boulevard, Chicago, Illinois 60604.

Whether or not you request a hearing, you may request an informal settlement conference. If you wish to request a conference, or if you have any questions about this matter, please contact Susan Perdomo at (312) 886-0557, or Meghan Dunn, case enforcement officer, at (312) 886-6191.

Sincerely,

A handwritten signature in black ink, appearing to read 'Margaret M. Guerriero', written in a cursive style.

Margaret M. Guerriero
Director
Land and Chemicals Division

Enclosures

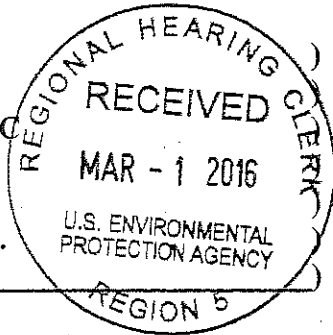
cc: Regional Hearing Clerk (E-19J)
Susan Perdomo (C-14J)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

In the Matter of:

AP Goldshield, LLC
El Paso, Texas,

Respondent.



Docket No. FIFRA-05-2016-0005

Proceeding to Assess a Civil Penalty
Under Section 14(a) of the Federal
Insecticide, Fungicide, and Rodenticide
Act, 7 U.S.C. § 136l(a)

Complaint

1. This is an administrative proceeding to assess a civil penalty under Section 14(a) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), 7 U.S.C. § 136l(a).
2. The Complainant is, by lawful delegation, the Director of the Land and Chemicals Division, United States Environmental Protection Agency (EPA), Region 5.
3. The Respondent is AP Goldshield, LLC (Respondent or Goldshield), a limited liability company doing business in the state of Texas.

Statutory and Regulatory Background

4. Section 3(a) of FIFRA, 7 U.S.C. § 136a(a) and 40 C.F.R. § 152.15, provide that no person in any state may distribute or sell to any person any pesticide that is not registered under the Act, except in certain circumstances which are not relevant to this case.
5. Section 12(a)(1)(A) of FIFRA, 7 U.S.C. § 136j(a)(1)(A), provides that it is unlawful for any person in any state to distribute or sell to any person any pesticide that is not registered under Section 3 of FIFRA, 7 U.S.C. § 136a.
6. A substance is considered to be intended for a pesticidal purpose, and thus to be a pesticide requiring registration, if the person who distributes or sells the substance claims, states, or implies (by labeling or otherwise) that the substance can or should be used as a pesticide.
40 C.F.R. § 152.15(a)(1).

7. Section 3(c)(1)(C), 7 U.S.C. § 136a(c)(1)(C), provides that each applicant for registration of a pesticide shall file with the administrator a statement which includes a completed copy of the labeling of the pesticides, a statement of all claims to be made for it and any direction for its use.

8. Section 12(a)(1)(B) of FIFRA, 7 U.S.C. § 136j(a)(1)(B), provides that it shall be unlawful for any person in any state to distribute or sell to any person any registered pesticide if any claims made for it as a part of its distribution or sale substantially differ from any claims made for it as a part of the statement required in connection with its registration under Section 3 of FIFRA, 7 U.S.C. § 136a.

9. Section 12(a)(1)(E) of FIFRA, 7 U.S.C. § 136j(a)(1)(E), provides that it shall be unlawful for any person in any state to distribute or sell to any person any pesticide which is misbranded.

10. Section 2(q)(1)(A) of FIFRA, 7 U.S.C. § 136(q)(1)(A), provides that a pesticide is misbranded if its labeling bears any statement, design or graphic representation relative thereto or to its ingredients which is false or misleading in any particular.

11. Section 12(a)(2)(I), 7 U.S.C. § 136j(a)(2)(I), provides that it shall be unlawful for any person to violate any order issued under Section 13, 7 U.S.C. § 136k.

12. The term "person" as defined in Section 2(s) of FIFRA, 7 U.S.C. § 136(s), "means any individual, partnership, association, corporation, or any organized group of persons whether incorporated or not."

13. The term "distribute or sell" is defined in Section 2(gg) of FIFRA, 7 U.S.C. § 136(gg), and 40 C.F.R. § 152.3 as "to distribute, sell, offer for sale, hold for distribution, hold for shipment, or receive and (having so received) deliver or offer to deliver."

14. The term “labeling” is defined in Section 2(p)(2) of FIFRA, 7 U.S.C. § 136(p)(2), in pertinent part, as all labels and all other written, printed, or graphic matter (B) to which reference is made on the label.

15. The term “pest” is defined in Section 2(t) of FIFRA, 7 U.S.C. § 136(t), in pertinent part, “as any insect, rodent, nematode, fungus, weed, or any other form of terrestrial or aquatic plant or animal life or virus, bacteria, or other micro-organism.” See also 40 C.F.R. § 152.5(c).

16. The term “pesticide” is defined at Section 2(u) of FIFRA, 7 U.S.C. § 136(u), and 40 C.F.R. § 152.3, in pertinent part, as “any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest.”

17. The term “registrant” is defined at Section 2(y) of FIFRA, 7 U.S.C. § 136(y), as a person who has registered any pesticide pursuant to the provisions of FIFRA.

18. Pursuant to FIFRA § 14(a)(1), 7 U.S.C. § 136l(a)(1), any registrant, commercial applicator, wholesaler, dealer, retailer, or other distributor who violates any provision of this Act may be assessed a civil penalty by the Administrator of not more than \$5,000 for each offense.

19. Pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990, 28 U.S.C. § 2461, as amended by the Debt Collection Improvement Act of 1996, 31 U.S.C. § 3701, and 40 C.F.R. Part 19, the Administrator of EPA may assess a civil penalty against any retailer who violates any provision of FIFRA of up to \$7,500 for each offense that occurred after December 6, 2013.

General Allegations

20. At all times relevant to the Complaint, Respondent was a corporation doing business in the state of Texas.

21. Respondent is a “person” as defined at section 2(s) of FIFRA, 7 U.S.C. § 136(s).

22. At Respondent’s request, EPA registered Goldshield 75 as a pesticide under Section 3(c)(5) of FIFRA, 7 U.S.C. § 136a(c)(5), and assigned it EPA Registration Number 85556-2. EPA most recently accepted the Goldshield 75 label on July 6, 2012. (Attachment A)

23. At Respondent’s request, EPA registered Goldshield 5 as a pesticide under Section 3(c)(5) of FIFRA, 7 U.S.C. § 136a(c)(5), and assigned it EPA Registration Number 85556-1. EPA most recently accepted the Goldshield 5 label on July 6, 2012. (Attachment B)

24. At all times relevant to the Complaint, Respondent was a “registrant” of Goldshield 5 and Goldshield 75, as defined at Section 2(y) of FIFRA, 7 U.S.C. § 136(y), and subject to the assessment of a civil penalty under section 14(a)(1) of FIFRA, 7 U.S.C. § 136(a)(1), for any violation of FIFRA.

25. At all times relevant to the Complaint, as a distributor and retailer of Goldshield 85, Respondent was a “distributor” or “retailer” and subject to the assessment of a civil penalty under Section 14(a)(1) of FIFRA, 7 U.S.C. § 136(a)(1), for any violation of FIFRA.

26. Respondent maintains a publicly accessible website at www.goldshield1.com (Respondent’s website) through which it offers for sale Goldshield 75 (GS 75), Goldshield 5 (GS 5) and Goldshield 85 (GS 85) surface cleaner.

27. GS 75 and GS 5 are registered with EPA as microbiostatic agents.

28. Microbiostatic agents are non-public antimicrobial health products intended only to control algae, odor causing bacteria and bacteria that causes spoilage, deterioration or fouling of material and micororganisms infectious only to animals.

29. Microbiostatic means a substance, or mixture of substances, that inhibits the growth of microorganisms (e.g. bacteriostat, fungistat, algistat).

30. At the other end of the antimicrobial spectrum are public health antimicrobial pesticides that are intended to control microorganisms infectious to humans in any inanimate environment, such as sterilizers, sanitizers and disinfectants.

31. Sterilizers are used to destroy or eliminate all forms of microbial life, including fungi, viruses, all forms of bacteria and their spores.

32. Sanitizers are used to reduce microorganisms to levels considered safe as determined by public health codes or regulations.

33. Disinfectants are used to destroy or irreversibly deactivate infectious fungi and bacteria.

34. The label claim made on the label of an antimicrobial product establishes whether it is considered a public health claim.

35. In order to make a public health claim, a registrant is required to submit "product performance" data in support of the performance of the product against the target pest, including efficacy test data, to ensure that the pesticide will control the pests listed on the label and that unnecessary pesticide exposure to the environment will not occur as a result of the use of ineffective pesticides.

36. Product performance refers to all pesticidal aspects of a product's effectiveness and usefulness.

37. Product performance data is required to be submitted as part of the product registration for antimicrobial products intended to control microorganisms infectious to man in any area of the inanimate environment where these microorganism may present a hazard to public health.

38. Respondent's application for registration for pesticide products GS 75 and

GS 5 did not include product performance data that would support any public health claims.

39. GS 75 and GS 5 are not registered as public health antimicrobial pesticides.

40. The EPA-accepted label for GS 75 and GS 5 states: “a Microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining, and discoloration fungi (mold and mildew) and algae. This product does not protect users or others against food-borne or disease-causing bacteria.”

41. On January 8, 2015, U.S. EPA Civil Investigator Maureen O’Neill purchased from Respondent’s website the following Goldshield products (Order Number 31400109):

GS 85, 32 oz. spray bottle (\$14)
GS 5, 1 gallon concentrate (\$195)
GS 75, 32 oz. spray bottle (\$20)

(Attachment C)

42. Respondent shipped Order Number 31400109 to Purdue University Biochemist Ping Wan. (Attachment D)

43. On January 16, 2015, Purdue University received the shipment of Order Number 31400109. (Attachment E)

44. On March 3, 2015, Respondent’s website stated, with respect to GS 75 and GS 5 (unless otherwise noted parenthetically), that:

- a. “In the Institutional and industrial (I & I) sector, Goldshield would have significant application in combating ‘sick building syndrome’ – acute health symptoms caused by microorganisms such as viruses, mold, mildew and fungi.”
- b. “Effective Against Broad Spectrum of Microbes,”
- c. “EBOLA VIRUS makes world news! [CLICK HERE](#) to see how Goldshield can help kill, remediate and protect you and your family as it helps Ebola-infected patients,”

- d. "Disinfection and prevention of bacterial contamination, from everyday living to in-hospital stays, is challenging. While a universal solution remains elusive, AP Goldshield LLC offers new chemistry that is unique in its power to continue to inhibit bacteria, mold, mildew and fungi after it dries following application; **continual protection is key to reducing risk,**"
- e. "Goldshield is a brilliant antimicrobial chemistry invented at Emory,"
- f. "Other antimicrobial products do not equal Goldshield's effectiveness, none have Goldshield's provenance and none have Goldshield's residual, persistent protection,"
- g. "While we don't know yet what positive effects Goldshield might have on mitigating the Ebola virus, here's what we do know: Goldshield is [an undisputed antiseptic for the human body (GS24)] and an antimicrobial for inanimate surfaces (GS75) such as beds, mattresses, curtains, chairs, floors, walls, sinks, toilets, phones, TV remotes, etc. Goldshield when used on the hands of Ebola-infected patients and on objects that surround them, WILL help them AND their caregivers stay bacteria-mitigated. Therefore, giving their body's natural defenses the opportunity to restrengthen, thus allowing the human body to fight the Ebola virus itself,"
- h. "Typical disinfectants or inhibitors used in hospitals generally provide no more than 10 minutes to one hour of residual protection. The Goldshield antimicrobial water stable agents provide weeks to a month of surface protection. That residual component permits these formulas to standalone in the world of antimicrobial and microbiostatic effectiveness and protection,"
- i. "Multiple independent studies have demonstrated Goldshield to be a broad-spectrum algacide, bactericide and fungicide. In these studies, Goldshield has been proven effective against Staphylococcus aureus, VRE, MRSA, Pseudomonas a., Salmonella, E. coli and other hardy Gram (+) and Gram (-) bacteria such as those which cause odor, staining and discoloration of textiles,"
- j. "Goldshield today is the world's only patented, water stable, functioning organosilane that is environmentally benign [...], does not leach [...], is economical because a single application provides up to a 30-day 'invisible' protective shield inhibiting a broad spectrum of bacteria, mold, mildew, fungi,"
- k. "Through a variety of domestic and international regulatory protocols Goldshield products have been shown to possess very unique characteristics; they are both bio-static (inhibits) and bio-cidal (kills) a broad spectrum of bacteria, mold, mildew, fungi and even some viruses,"

- l. "This is due to Goldshield's unique water-stable organosilane molecutlar [sic] structure and patented compounds that are composed of three parts: [...] Part 3 is a long carbon chain that releases an ionic charge that literally punctures the microbe's cell membrane upon contact thereby instantly killing the microbe...*mechanically*. At the same time, the quaternary compound component of Goldshield denatures the microbe's proteins, which assures the microbe's kill... *chemically*. This DUAL killing functionality is unique to Goldshield and very important because a DUAL kill assures an INSTANT KILL ON CONTACT, therefore microbes do NOT have time to regenerate into 'superbugs'. There are no other water-stable antimicrobial chemistries available today that function in this manner,"
- m. "Goldshield's antimicrobial agents and antiseptic products offer a new generation technology to combat germs, bacteria and even certain viruses,"
- n. "Q: Where can Goldshield's Surface Antimicrobial be used?
A: Goldshield is approved to be used in virtually any environment including homes, hospitals, daycare centers, churches, offices and hotels and restaurants. This is so because Goldshield is water-based, no alcohol, non-toxic, non-flammable and extremely safe to use,"
- o. [GS 75 only] "[...] provides effective antimicrobial properties on a wide variety of materials,"
- p. [GS 75 only] "[...] can provide a durable microbiostatic and antimicrobial finish when applied to siliceous surfaces, natural and man made [sic] fibers, metals, leather, wood, rubber, plastic and formica,"
- q. [GS 75 only] "Long Term Residual Protection,"
- r. [GS 75 only] "Effectively inhibits the growth of bacteria, fungi, yeasts and certain viruses on the treated surfaces of most substrates,"
- s. [GS 75 only] "**Goldshield75** Protectant provides an invisible, durable microbiostatic finish that protects the treated surface and textile against bio-deterioration by inhibiting microbial growth, through a mechanical killing functionality. This product will deliver effective inhibition of bacteria, fungi, yeasts and certain viruses including mold/mildew and algae,"
- t. [GS 5 only] "Goldshield 5 (Antimicrobial-Microbiostatic & Long Term Disinfectant Agents),"
- u. [GS 5 only] "[...] provides effective antimicrobial properties on a wide variety of materials,"

- v. [GS 5 only] “This water-based product is easy to formulate and eliminates the hazards of conventional methane-based additives and heavy metal antimicrobials,”
- w. [GS 5 only] “*Goldshield 5* [...] can provide a durable microbiostatic and antimicrobial finish when applied to siliceous surfaces, natural and man made [sic] fibers, metals, leather, concrete, masonry, siding, drywall, wood, rubber, plastic and Formica,”
- x. [GS 5 only] “Effectively inhibits and persistently disinfects the growth of bacteria, fungi, yeasts and certain viruses such as mold/mildew, algae on various surfaces and textiles and H1N1, HIV B,”
- y. [GS 5 only] “*Goldshield 5* provides an invisible, long-term durable microbiostatic, antimicrobial prophylactic finish that protects surfaces against biodeterioration by inhibiting microbial growth,”
- z. [GS 5 only] “This product will deliver effective inhibition of bacteria, fungi, yeast and certain viruses; thus protecting surfaces against deterioration, discoloration and odors for long periods of time with one application,”
- aa. [GS 5 only] “It contains both static and bio-cidal properties.”

(Attachment F)

Specific Allegations – Violations

Count 1 Goldshield 75 – Misbranding Violation

45. Complainant incorporates by reference the allegations contained in paragraphs 1 through 44 of this Complaint.

46. 40 C.F.R. § 156.10(a)(5)(ix) provides that claims as to safety of a pesticide or its ingredients is a false or misleading claim and as such constitutes misbranding. “Safe,” “non-poisonous,” “non-injurious,” “harmless” or “non-toxic to humans or pests” with or without such a qualifying phrase as “when used as directed”

47. The label affixed to the Goldshield 75 product that the U.S. EPA civil investigator purchased on January 8, 2015 included the statement “safe to use.” (Attachment G)

48. Respondent's use of the statement "safe to use" on the Goldshield 75 label is false and misleading and, therefore, the label is misbranded, as that term is defined at Section 2(q)(1)(A) of FIFRA, 7 U.S.C. § 136(q)(1)(A).

49. Respondent's distribution or sale of the misbranded pesticide Goldshield 75 on January 8, 2015 constitutes an unlawful act under Section 12(a)(1)(E) of FIFRA, 7 U.S.C. § 136(a)(1)(E), and subjects Respondent to the issuance of an Administrative Complaint assessing a civil penalty under Section 14(a) of FIFRA, 7 U.S.C. § 136l(a).

Count 2 Goldshield 75 – Claims Differ Violation

50. Complainant incorporates by reference the allegations contained in paragraphs 1 through 44 of this Complaint.

51. The label affixed to the GS 75 pesticide product that the EPA Civil Investigator purchased on January 8, 2015, identified the product as "GS 75 Ready-to-Use." (Attachment G)

52. The label affixed to the GS 75 pesticide product the EPA civil investigator purchased on January 8, 2015 references Respondent's website.

53. Respondent's website contains the claims identified in paragraph 44 of this Complaint.

54. In addition, the label affixed to the GS 75 pesticide product that the EPA Civil Investigator purchased on January 8, 2015 made the following claims:

- a. "One application inhibits bacteria, including those that cause odors, staining and discoloration for up to 30 days indoors on most surfaces,"
- b. "Stops and prevents the return of mold and mildew for months outdoors,"

(Attachment G)

55. The Claims made on Respondent's label and website substantially differed from the label submitted to EPA and accepted by EPA on or about July 6, 2012 as part of the statement required in connection with its registration under Section 3 of FIFRA, 7 U.S.C. § 136a.

56. Respondent distributed or sold the registered pesticide GS 75 with claims on its label that substantially differed from claims made for it as part of the statement required in connection with its registration under Section 3 of FIFRA, 7 U.S.C. § 136a, which constitutes an unlawful act under Section 12(a)(1)(B) of FIFRA, 7 U.S.C. § 136j(a)(1)(B), and subjects Respondent to the issuance of an Administrative Complaint assessing a civil penalty under Section 14(a) of FIFRA, § 136l(a).

Count 3 Goldshield 5 – Claims Differ Violation

57. Complainant incorporates by reference the allegations contained in paragraphs 1 through 44 of this Complaint.

58. The label affixed to the GS 5 pesticide product that the EPA Civil Investigator purchased on January 8, 2015, referenced Respondent's website. (Attachment H)

59. Respondent's website made claims about GS 5 found at paragraph 44 of this Complaint.

60. The label affixed to the GS 5 pesticide product the EPA Civil Investigator purchased on January 8, 2015, identified the product as "GS 5 Concentrate" and "GS 5."

61. In addition, the label affixed to the GS 5 pesticide product that the EPA Civil Investigator purchased on January 8, 2015 made the following claims:

- a. "GS 5 is a concentrate intended for use in diluted form; 5 parts water to 1 part GS 5 for most uses,"
- b. "GS 5 may be used in concentrate form as a laundry additive to inhibit bacteria that cause odor, staining and discoloration for up to 50 subsequent washings,"

(Attachment H)

62. The website and label claims identified in paragraphs 44 and 61 above substantially differed from the label submitted to EPA and accepted by EPA on or about July 6, 2012 as part of the statement required in connection with its registration under Section 3 of FIFRA, 7 U.S.C. § 136a.

63. Respondent's distribution or sale of the registered pesticide GS 5 with claims on its label that substantially differed from claims made for it as part of the statement required in connection with its registration under Section 3 of FIFRA, 7 U.S.C. § 136a, constitutes an unlawful act under Section 12(a)(1)(B) of FIFRA, 7 U.S.C. § 136j(a)(1)(B), and subjects Respondent to the issuance of an Administrative Complaint assessing a civil penalty under Section 14(a) of FIFRA, 7 U.S.C. § 136l(a).

Count 4 Goldshield 85 – Unregistered Pesticide Violation

64. Complainant incorporates by reference the allegations contained in paragraphs 1 through 44 of this Complaint.

65. 40 C.F.R. § 152.15 provides that "A substance is considered to be intended for a pesticidal purpose, and thus to be a pesticide requiring registration, if: (c) The person who distributes or sells the substance has actual or constructive knowledge that the substance will be used, or is intended to be used, for a pesticidal purpose."

66. The label affixed to the GS 85 product that the EPA Civil Investigator purchased on January 8, 2015 references Respondent's website. (Attachment I)

67. Respondent's website contained the following claim: "GS 85's active ingredient is the world's only patented organosilane compound that has been stabilized in water; safe to use..." (Attachment J)

68. The Goldshield 85 product that the EPA civil investigator purchased on January 8, 2015 reference Respondent's website.

69. The Safety Data Sheet (SDS) stated under the section titled "Composition/Information on Ingredients" that Goldshield 85 contains the chemical octadecylaminodimethyltrimethoxysilylpropylammonium chloride (CAS Number 27668-52-6). (Attachment K)

70. The chemical octadecylaminodimethyltrimethoxysilylpropylammonium chloride (CAS Number 27668-52-6) is the active ingredient in GS 5 and GS 75.

71. On April 23, 2014, at 9:20 AM, EPA Environmental Scientist Meghan Dunn contacted Respondent at (516) 375-2927, the telephone number provided in Respondent's website. The call was routed to John DePasquale's voicemail. Ms. Dunn left a message on John DePasquale's voicemail to inquire about Respondent's products advertised on its website. At the time Ms. Dunn called John DePasquale, he represented himself as the Business Development Manager for AP Goldshield, LLC. John DePasquale returned Ms. Dunn's call at 10:08 AM on April 23, 2014 (Attachment L).

72. During that call, with respect to the GS 85 product sold on Respondent's website, John DePasquale stated that it is a cleaner and degreaser that has "antimicrobial" as well as additives to break down grease, grime and oil.

73. Mr. DePasquale also stated that GS 85 has a two week residual effectiveness with bacteria, which offers less residual protection than the thirty day residual protection of GS 5. He

added that the shorter residual time for GS 85 has to do with the fact that it has more complicated chemistry than GS 5.

74. Mr. DePasquale encouraged Ms. Dunn to email him at his email address john3@goldshield1.com for more information on products and pricing.

75. On April 23, 2014, Ms. Dunn contacted Mr. DePasquale at his email address and asked him to compare the GS 10 product to the GS 85 product (Attachment M).

76. GS 10 is not a subject of this Complaint. It is one of the products in the Goldshield line.

77. On May 6, 2014, Mr. Pasquale responded to Ms. Dunn's email with a description of the differences between its Goldshield product lines. With respect to Goldshield 85, Mr. DePasquale stated in his email response:

The great aspect about our product line is that it can cover a variety of different purposes depending on someone's specific needs.

If someone believes that a 30 day residual is essential, we recommend the gs75...we then recommend the gs10 because it is non-ionic (I will explain its importance in a second).. the GS10 will be used for every day superficial cleaning... cleaning dirt, grime, scuff marks etc, but it does not have the same antimicrobial capability as our GS85 or GS75.

GS 85 is essentially (if you want to think about it this way) GS 10 + GS75, so it has the degreasing power of GS 10 combined with the antimicrobial capability of GS75. Very rarely do we recommend both GS85 and GS75 for a facility to use in combination. We usually do it in facilities like hospitals and jails, places that are exposed to all sorts of bacteria, blood, bodily fluid. Our GS75 protects the surfaces and bacteria that come in contact with those surfaces, but a lot of body fluid puddles, and the contamination in that puddle that ISNT [sic] directly in contact with the surface wont [sic] be killed... thats [sic] why having the GS85 in which to clean it with is just an extra step of safety for everyone especially those cleaning up the mess.

Our antimicrobial products are cationic, meaning they are positively charged, we highly recommend customers to use non-ionic surfactants

when doing daily upkeep cleaning... this will ensure our GS75 or 85 is not being degraded.

(Attachment M)

78. Respondent's statements at paragraphs 66, 72, 73 and 77, above, state, claim or imply that GS 85 is a pesticide.

79. GS 85 is a "pesticide" as that term is defined at Section 2(u) of FIFRA, 7 U.S.C. § 136(u) and 40 C.F.R. § 152.15.

80. GS 85 is not registered as a pesticide with EPA.

81. Respondent's distribution or sale of the unregistered pesticide Goldshield 85 on January 8, 2015 constitutes an unlawful act under Section 12(a)(1)(a) of FIFRA, 7 U.S.C. § 136(a)(1)(a), and subjects Respondent to the issuance of an Administrative Complaint assessing a civil penalty under Section 14(a) of FIFRA, 7 U.S.C. § 136l(a).

Count 5 Stop, Sale Use and Removal Order Violation

82. Complainant incorporates by reference the allegations contained in paragraphs 1 through 44 of this Complaint.

83. On April 6, 2012, EPA issued to Respondent a Stop Sale, Use and Removal Order (Order) concerning, among other products, Goldshield 75 and Goldshield 5. (Attachment N)

84. The Order found that Respondent had sold and distributed GS 75 and GS 5 with a website that contained numerous claims that had not been accepted by EPA at the time the label was registered under Section 3 of FIFRA, 7 U.S.C. § 136a, including, but not limited to:

- a. "In the Institutional and Industrial (I&I) sector, Goldshield would have significant application in combating 'sick building syndrome' – acute health symptoms caused by microorganisms such as viruses, mold, mildew and fungi,"
- b. "Effective Against Broad Spectrum of Microbes."

85. EPA concluded in its Order that Respondent had distributed and sold GS 75 and GS 5 unlawfully as described at Section 12 (a)(1)(B) of FIFRA, 7 U.S.C. § 136j(a)(1)(B).

86. As a result, EPA ordered Respondent to immediately cease the distribution or sale, including sales or offers for sale via the internet, of violative pesticide product, including GS 75 and GS 5.

87. On March 3, 2015, Respondent made the following claims on its website concerning GS 75 and GS 5:

- a. "In the Institutional and Industrial (I&I) sector, Goldshield would have significant application in combating 'sick building syndrome' – acute health symptoms caused by microorganisms such as viruses, mold, mildew and fungi,"
- b. "Effective Against Broad Spectrum of Microbes."

(Attachment F)

88. Respondent's offer for sale via the internet on March 3, 2015 of the registered pesticide GS 75, with the claims identified at paragraph 87 above, in violation of the April 6, 2012 Order, constitutes an unlawful act under Section 12(a)(2)(I) of FIFRA, 7 U.S.C. § 136j(a)(2)(I), and subjects Respondent to the issuance of an Administrative Complaint assessing a civil penalty under Section 14(a) of FIFRA, 7 U.S.C. § 136l(a).

Proposed Civil Penalty

89. Complainant proposes that the Administrator assess a civil penalty against Respondent for the FIFRA violations alleged in this Complaint as follows:

Count 1

Distribution or sale of misbranded Goldshield 75.....\$4,250

Count 2

Distribution or sale of Goldshield 75 for which claims differed.....\$4,250

Count 3

Distribution or sale of Goldshield 5 for which claims differed.....\$4,250

Count 4

Distribution or sale of Goldshield 85.....\$7,150

Count 5

Violation of Stop Sale, Use and Removal Order.....\$7,150

Total proposed civil penalty.....\$27,050

Complainant determined the proposed civil penalty according to Section 14(a) of FIFRA, 7 U.S.C. § 136l(a). In determining the penalty amount, Complainant considered the size of Respondent's business, the effect on Respondent's ability to continue in business and the gravity of the violations. Complainant also considered EPA's FIFRA Enforcement Response Policy, dated December 2009 (Attachment O).

Rules Governing this Proceeding

The Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation/Termination or Suspension of Permits (the Consolidated Rules), at 40 C.F.R. Part 22, govern this proceeding to assess a civil penalty. Enclosed with the Complaint served on Respondent is a copy of the Consolidated Rules.

Filing and Service of Documents

Respondent must file with the EPA Regional Hearing Clerk the original and one copy of each document Respondent intends as part of the record in this proceeding. The Regional Hearing Clerk's address is:

Regional Hearing Clerk (E-19J)
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Respondent must serve a copy of each document filed in this proceeding on each party pursuant to Section 22.5 of the Consolidated Rules. Complainant has authorized Susan Perdomo to receive any answer and subsequent legal documents that Respondent serves in this proceeding. You may telephone Ms. Perdomo at (312) 886-0557. Her address is:

Susan Perdomo (C-14J)
Office of Regional Counsel
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Terms of Payment

Respondent may resolve this proceeding at any time by paying the proposed penalty by sending a certified or cashier's check, payable to "Treasurer, United States of America," to:

U.S. EPA
Fines and Penalties
Cincinnati Finance Center
P.O. Box 979077
St. Louis, Missouri 63197-9000

Respondent must include the case name, docket number and billing document number on the check and in the letter transmitting the check. Respondent must simultaneously send copies of the check and transmittal letter to the Regional Hearing Clerk and Susan Perdomo at the addresses given above, and to:

Meghan Dunn (LC-8J)
Pesticides and Toxics Compliance Section
U.S. EPA, Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Answer and Opportunity to Request a Hearing

If Respondent contests any material fact upon which this Complaint is based, contends that the proposed penalty is inappropriate, or contends that it is entitled to judgment as a matter of law, Respondent may request a hearing before an Administrative Law Judge. To request a hearing, Respondent must file a written Answer within 30 days of receiving this Complaint and must include in that written Answer a request for a hearing. Any hearing will be conducted according to the Consolidated Rules.

In counting the 30-day period, the date of receipt is not counted, but Saturdays, Sundays, and federal legal holidays are counted. If the 30-day period expires on a Saturday, Sunday, or federal legal holiday, the time period extends to the next business day.

To file an Answer, Respondent must file the original written Answer and one copy with the Regional Hearing Clerk at the address specified above and must serve copies of the Answer on the other parties.

Respondent's written Answer must clearly and directly admit, deny, or explain each of the factual allegations in the Complaint; or must state clearly that Respondent has no knowledge of a particular factual allegation. Where Respondent states that it has no knowledge of a particular factual allegation, the allegation is deemed denied. Respondent's failure to admit, deny, or explain any material factual allegation in the Complaint constitutes an admission of the allegation.

Respondent's answer must also state:

- a. The circumstances or arguments which Respondent alleges constitute grounds of defense;
- b. The facts that Respondent disputes;

- c. The basis for opposing the proposed penalty; and
- d. Whether Respondent requests a hearing.

Settlement Conference


Whether or not Respondent requests a hearing, Respondent may request an informal conference to discuss the facts alleged in the Complaint and to discuss settlement. To request an informal settlement conference, Respondent may contact Meghan Dunn at (312) 886-6191.

Respondent's request for an informal settlement conference will not extend the 30-day period for filing a written Answer to this Complaint. Respondent may simultaneously pursue both an informal settlement conference and the adjudicatory hearing process. The Complainant encourages all parties against whom it proposes to assess a civil penalty to pursue settlement through an informal conference. Complainant, however, will not reduce the proposed penalty because the parties hold an informal settlement conference.

Continuing Obligation to Comply

Payment of a civil penalty will not affect Respondent's continuing obligation to comply with FIFRA and any other applicable federal, state or local law.

2/29/2016
Date



Margaret M. Guerriero
Director
Land and Chemicals Division

In the matter of: AP Goldshield, LLC
Docket Number: **FIFRA-05-2016-0005**

CERTIFICATE OF SERVICE

I certify that I served a true and correct copy of the foregoing **Administrative Complaint** which was filed on 3/1/2016, in the following manner to the addressees:

Copy by Certified Mail
Return-receipt:

Mr. Thomas Higgins
Co-Chairman, CEO and President
AP Goldshield, LLC
9570 Pan American Drive
El Paso, Texas 79927

Copy by E-mail to
Attorney for Complainant:

Susan Perdomo
Perdomo.susan@epa.gov

Copy by E-mail to
Regional Judicial Officer:

Ann Coyle
coyle.ann@epa.gov

Dated: 3/1/2016

Ruben B. Aridge

Ruben B. Aridge
APA/ PTSC/ CMB/ LCD
U.S. Environmental Protection Agency, Region 5

CERTIFIED MAIL RECEIPT NUMBERS: **7011 1150 0000 2639 2529**

ATTACHMENT A

85556-2

10414

JUL 6 2012

Thomas L Higgins
President
AP Goldshield LLC
9570 Pan American Dr
El Paso, Texas 79927

SUBJECT: Goldshield 75
EPA Registration Number 85556-2
Application Date June 1, 2012
Receipt Date June 5, 2012

Dear Mr Higgins

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable

General Comments

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling. Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308 6233

Sincerely,

DHE fox

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

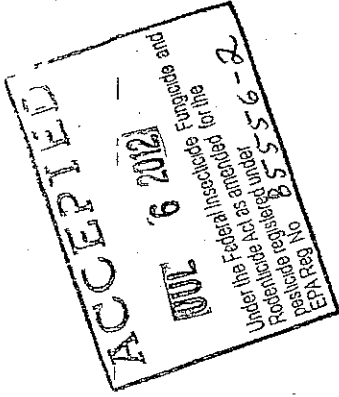


AP Goldshield™

Goldshield™ 75

MICROBIOSTATIC AGENT

A Silicone Quaternary Ammonium Salt



Active Ingredient 3- (trihydroxysilyl) propyldimethyloctadecyl ammonium chloride
Other Ingredients
TOTAL
INGREDIENTS

75%
99.25%
100.0%

KEEP OUT OF REACH OF CHILDREN

EPA Reg No 85556-2

EPA EST 88321-TN 001

NET CONTENTS 2 4 8 16 20 22 32 or 36 fluid oz 1 5 55 150 or 275 gal

Lot No _____



A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae. This product does not protect users or others against food-borne or disease-causing bacteria.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses. This pesticide is toxic to fish. 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.

De-activation may be required during clean up if a spill occurs. De-activation of Goldshield™ 75 can be achieved by the addition of anionic surfactant (such as soap sulfonates, sulfates) in quantity equivalent to that of Goldshield™ 75.

2014

Homeowner use This pesticide is toxic to fish Do not apply directly to water Do not contaminate water by cleaning of equipment or disposal of pesticide

DIRECTIONS FOR USE
Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Dry treated areas and articles such as clothing before use Remove children and pets from treated area until completely dry

Apply *Goldshield*™ 75 by brushing dipping soaking spraying techniques

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis Optimum application and drying conditions, such as time and temperature, should be determined for each application before use If necessary, reapply *Goldshield*™ 75 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return

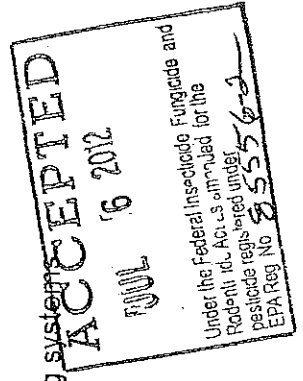
Goldshield™ 75 when used as a concrete additive is added directly during concrete preparation Use 40 fluid ounces per cubic feet of concrete Addition of *Goldshield*™ 75 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion

Approved commercial and industrial applications

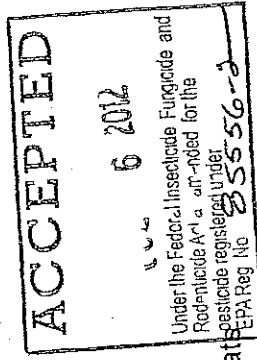
The active ingredient in *Goldshield*™ 75 is effective against odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae as a static agent

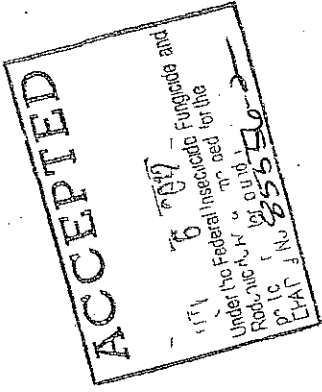
Goldshield™ 75 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) and algaestatic activity

- Air filters for furnaces air-conditioners air purification devices automobiles recirculating air handling systems
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies



- Cellulose sponges
- Concrete additive for sewer pipes manholes and concrete sewer structures not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewer structures not to be used in treatment of storm drains
- Exterior walls (such as stone concrete brick)
- Fiberfill for upholstery sleeping bags apparel where the fiber is cotton natural down nylon polyester rayon or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets sweaters sweatshirts coats raincoats overcoats jerseys ponchos)
- Polyurethane and cellulose foam for household, industrial and institutional sponges and mops
- Polyurethane and polyethylene foam when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials - defined as shingles roofing granules wood shakes felt stone and synthetic overcoats
- Sand bags tents tarpaulins sails and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains
- Socks comprised of nylon nylon/orlon cotton/nylon linen/Lycra acrylic/polypropylene/nylon/Lycra wool/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs
- Toweling made of 100 percent cotton 100 percent polyester and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- Upholstery made of acetates acrylics cotton fiberglass nylon polyester polyethylene polyolefins polypropylene rayon spandex vinyl wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture cars walls windows floors appliances dishes counter tops the wiping cloths do not impart pesticide properties
- Women's hosiery





- Women's intimate apparel

DIRECTIONS FOR USE

Approved commercial applications used in homes, offices, automobile automobiles and institutions
e.g. schools, hospitals, daycare centers, churches, correctional facilities.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application Using pump sprayer, spray entire area 4"-6" from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand for 3 minutes and wipe with dry cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying small, concealed area prior to application. Goldshield™ 75 treats approximately 200 square feet per gallon. When treating coarser substrates, more Goldshield™ 75 may be required due to absorption. A fan may be used to assist in drying carpeting.

For Commercial Spray Application For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, pressure sprayer) apply and then let stand until dry or let stand for 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Goldshield™ 75 treats approximately 200 square feet per gallon. When treating coarser substrates, more Goldshield™ 75 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpeting.

For Dipping/Soaking Application Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Goldshield™ 75 to completely submerge item. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperatures at temperatures to a maximum of 160° C (320° F), for example in a clothes dryer.

Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply Goldshield™ 75 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.

**Approved commercial applications used in homes, offices, automobiles and institutions
e.g., schools, hospitals, daycare centers, banks, churches, correctional facilities**

The active ingredient in Goldshield™ 75 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

Goldshield™ 75 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) and algaestatic activity:

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, re-circulating air handling systems
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel where the fiber is cotton, natural down, nylon, polyester, rayon or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials - defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual shoes
- Shoe insoles

ACCEPTED
JUL 6 2012
Under the Federal Insecticide, Fungicide and
Rodenticide Act, amended for the
Pesticide Registration Under
EPA R.C. No. 85516-2

0014

- Shower curtains
- Socks comprised of nylon nylon/orlon cotton/nylon linen/Lycra acrylic/polypropylene/nylon/Lycra wool/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs
- Toweling made of 100 percent cotton 100 percent polyester and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- Upholstery made of acetates acrylics, cotton fiberglass nylon, polyester polyethylene polyolefins polypropylene rayon spandex vinyl wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture cars walls windows floors appliances dishes, counter tops, the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

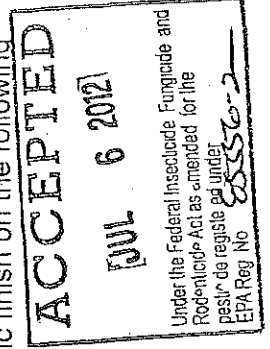
DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in Goldshield™ 75 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Goldshield™ 75 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity:



1014

80414

	Pest controlled	Method of Application
<p>Bedsheets blankets bedspreads curtains draperies (washable only) underwear, socks intimate apparel hosiery throw rugs toweling toilet tank covers shower curtains shoe insoles outerwear apparel (jackets, sweaters eatshirts coats raincoats overcoats jerseys ponchos) Goldshield™ 75 can be applied to fabrics made of acetates acrylics cotton fiberglass linen Lycra nylon, orlon polyester polyethylene polyolefins polypropylene rayon silk spandex vinyl and wool</p>	<p>Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>DIP/SOAK Use appropriate sized wash basin or tub for dipping/soaking the item you are treating Use enough Goldshield™ 75 solution to completely submerge item Keep item in solution for 3 minutes Remove item and wring excess liquid Drying may be attained by dripping dry or wringing excess liquid from treated item For larger items (e.g. bedspreads curtains draperies) place in washing machine on spin cycle to aid in the removal of excess liquid Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application Do not reuse solution after dipping/soaking Dry treated articles before use Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160 °C (320 °F) (for example in a clothes dryer) If necessary, reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return</p> <p>SPRAY Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 -6 from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application If necessary reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return</p>
<p>Air filters and air filter material for</p> <ul style="list-style-type: none"> • Furnaces air conditioners • Air purification systems • Automobiles • Re-circulating air handling systems • Vacuum cleaner filters • Aquariums 	<p>Pest controlled</p> <p>Odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew), and algae</p>	<p>Method of Application</p> <p>SPRAY When treating filters remove filter from the unit Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 - 6 from the surface making sure the surface is completely covered Apply and then let stand until dry if necessary reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains mildew stains and algae stains return</p> <div data-bbox="1266 294 1510 651" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ACCEPTED JUL 6 2012</p> <p><small>Under the Federal Insecticide, Fungicide and Rodenticide Act EPA Reg. No. 25530-2</small></p> </div>

Pest controlled	Method of Application
<p>Carpeting</p> <p>Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>SPRAY Apply to clean carpet surface Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 - 6 feet from the surface making sure the surface is completely covered For rotary jet extraction cleaners and carpet steamers add the Goldshield™ 75 solution directly to the cleaning tank then operate the equipment in accordance with manufacturer's instructions Apply and then let stand until dry Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application Goldshield™ 75 treats approximately 200 square feet per gallon When treating coarser substrates (e.g., wool carpeting) more Goldshield™ 75 may be required due to absorption Dry carpet areas and surfaces before re-entry A fan may be used to assist in drying carpeting Remove children and pets from treated area until completely dried If necessary reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return</p> <div data-bbox="812 283 1096 651" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ACCEPTED JUL 6 2012 <small>Under the Federal Insecticide Fungicide and Rodenticide Act, as amended for the pesticide registered under EPA Reg. No. 85538-2</small></p> </div>
<p>Mattress pad and mattress ticking and upholstery composed of acetates acrylics cotton fiberglass nylon polyester polyethylene polyolefins polypropylene rayon spandex vinyl, wool fiberfill to be used in upholstery sleeping bags apparel where the fiber is cotton natural</p> <p>Odor causing bacteria bacteria which cause staining and discoloration</p>	<p>SPRAY Clean surfaces prior to application Using a trigger pump sprayer spray the entire surface area 4 - 6 feet from the surface making sure the surface is completely covered Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application When applying to mattress pads and ticking do not soak Remove children and pets from treated area until completely dried If necessary reapply</p>

<p>down nylon rayon or wool</p>	<p>and fungi (mold and mildew)</p>	<p>Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return</p>
<p>Tents tarpaulins sails ropes</p>	<p>Pest controlled Odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae</p>	<p>Method of Application SPRAY Clean surface prior to application Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 -6 from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application If necessary, reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria, mold stains mildew stains and algae stains return DIP/SOAK Use appropriate sized wash basin or tub for dipping/soaking the item you are treating Use enough Goldshield™ 75 solution to completely submerge item Keep item in solution for three minutes Remove item and wring excess liquid Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application Do not reuse solution after dipping/soaking Dry treated articles before use Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160 °C (320 °F) (for example in a clothes dryer) Remove excess liquid before attempting to dry in a clothes dryer If necessary reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains mildew stains and algae stains return</p>
<p>Roofing materials (such as shingles, roofing granules wood shakes felt stone synthetic overcoats) Exterior wall (concrete brick)</p>	<p>Pest controlled Odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew)</p>	<p>Method of Application SPRAY Make sure the roof or wall is clean prior to application Using a pressure sprayer spray the entire surface area 6 -12 from the surface making sure the surface is completely covered After applying the solution of Goldshield™ 75 let stand until dry Goldshield™ 75 treats approximately 200 square feet of roofing or wall per gallon If necessary reapply Goldshield™ 75 every three months or when odor staining and discoloration due to bacteria mold stains mildew stains and algae stains return</p>

Under the Federal Insecticide Fungicide and Rodenticide Act, formulated for the pesticide registered under EPA Reg. No. 255-50-3

ACCEPTED
JUL 6 2012

	and algae Pest controlled	Method of Application
Buffer pads (polishing and abrasive) Polyurethane and cellulose foam for household sponges and mops vacuum cleaner bags umbrellas casual shoes athletic shoes	Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)	SPRAY Clean surface prior to application Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 -6 from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge If necessary reapply <i>Goldshield™ 75</i> every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return
Tub glazed tiles, vanity tops shower curtains shower stalls (areas) sinks washable walls wall paper for non-food contact floors window sills cabinets garbage cans appliances refrigerators (exterior) fiberglass formica glazed tiles glazed porcelain synthetic marble plastic vinyl	Pest controlled Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)	Method of Application SPRAY Using a trigger pump sprayer spray the entire surface area 4 - 6 from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge If necessary reapply <i>Goldshield™ 75</i> every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return

MOLD MILDEW ODOR PROTECTOR AND INHIBITOR *Goldshield™ 75* is an antimicrobial agent effective against odor causing bacteria

Goldshield™ 75 is an antimicrobial agent effective against bacteria which cause staining and discoloration

Goldshield™ 75 is an antimicrobial agent effective against fungi (mold and mildew)

Goldshield™ 75 is an antimicrobial agent effective against algae

Goldshield™ 75, is an antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen, and for the living room and dining room.

Bacteriostatic fungistatic (mold and mildew) algae static

Goldshield™ 75, an antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes

ACCEPTED

JUL 6 2012

Under the Federal Insecticide Fungicide and
 Rodenticide Act, the U.S. Environmental Protection Agency
 is hereby certifying that *Goldshield™ 75* is
 effective for the control of mold and mildew.

EPA Reg. No. B55516-2

110914

Goldshield™ 75, an antimicrobial agent, inhibits the growth of odor causing bacteria

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home

Effective on modern hard non-porous washable surfaces made of fiberglass glazed porcelain Formica® stainless steel synthetic marble

Imparts microbiostatic properties

Use on carpet and upholstery to inhibit odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)

Unscented

Use on carpet and upholstery to inhibit the growth of odor causing bacteria

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew)

Use on carpet and upholstery to inhibit the growth of odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae

Provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria

Provides an invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration

Provides an invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew)

Provides an invisible microbiostatic coating to inhibit the growth of algae

Provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae

Prevents deterioration caused by bacteria and fungi (mold and mildew)

Inhibits deterioration caused by bacteria

Resists development of microbial odors

Resists development of stains and discoloration due to bacteria

Resists development of stains due to fungi (mold and mildew)

Resists stains due to algae

Resists development of microbial odors, stains and discoloration due to bacteria fungi (mold and mildew) and algae

Provides/creates an invisible barrier to inhibit the growth of odor causing bacteria

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew)

Provides/creates an invisible barrier to inhibit the growth of algae

Provides/creates an invisible barrier to inhibit the growth of odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae

ACCEPTED
JUL 6 2012
Under the Federal Insecticide, Fungicide and
Rodenticide Act, registered for the
EPA Reg No. 85536-2

170714

Up to 5 gallons

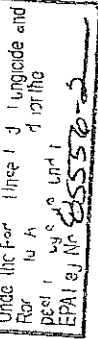
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal
Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies

Pesticide Storage Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies
Pesticide Disposal Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility [For Home owners use the statement will read Pesticide disposal Wastes resulting from the use of this product may be disposed of on site]

Container Disposal Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after flow begins to drip Repeat this procedure two more times Offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning If burned, stay out of smoke [For homeowners use statement will read

Container Disposal Securely wrap original container in several layers of newspaper and discard in trash



5 gallon containers and larger (not for homeowner)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal
Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies

Pesticide Storage Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies
Pesticide Disposal Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

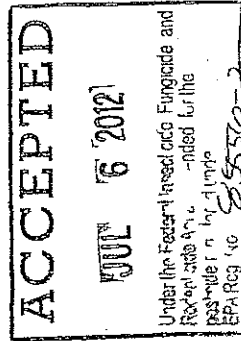
Container Disposal Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times Offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning If burned, stay out of smoke

FOR MORE INFORMATION CONCERNING THIS PRODUCT, PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS) THE MSDS CAN BE OBTAINED BY WRITING AP Goldshield LLC, 9570 Pan American Dr, El Paso Texas 79927 or email customerservice@goldshieldtech.com

IMPORTANT WARRANTY AND DISCLAIMER INFORMATION

AP Goldshield, LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin when used in accordance with directions under normal conditions of use, but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to bulletin instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use

AP GOLDSHIELD, LLC SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING THE WARRANTY OF MERCHANTABILITY



ATTACHMENT B

85556-1

1/16

07/06/2012

Thomas L Higgins
President
AP Goldshield LLC
9570 Pan American Dr
El Paso, Texas 79927

JUL 6 2012

SUBJECT Goldshield 5
EPA Registration Number 85556-1
Application Date June 1, 2012
Receipt Date June 5, 2012

Dear Mr Higgins

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable

General Comments

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling. Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308-6233

Sincerely,

DHE for

Velma Noble
Product Manager (31)
Regulatory Management Branch I
Antimicrobials Division (7510P)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

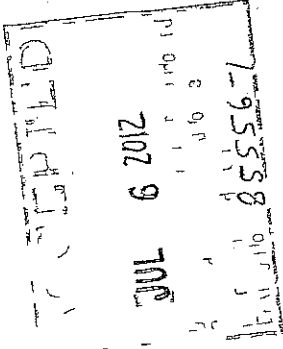


Goldshield™

Goldshield®5

MICROBIOSTATIC AGENT*

A Silicone Quaternary Ammonium Salt



Active Ingredient	3-(Trihydroxysilyl)propyldimethyloctadecyl ammonium chloride	5.0%
Other Ingredients		95.0%
TOTAL		100.0%
INGREDIENTS		

**KEEP OUT OF REACH OF CHILDREN
WARNING**

EPA Reg No 85556 1

EPA EST 82816-SC-001

NET CONTENTS 2 4 8 16 20 22 or 36 fluid oz 1 5 55 150 or 275 gal

Lot No

FIRST AID

Have the product container or label with you when calling the poison control center or doctor, or going for treatment

IF IN EYES

- Hold eye open and rinse slowly and gently with water for 15-20 minutes
- Remove contact lenses if present after the first 5 minutes then continue rinsing
- Call poison control center or doctor for treatment advice

IF INHALED

- Move person to fresh air
- If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth-to-mouth if possible
- Call a poison control center or doctor for further treatment advice

IF ON SKIN

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15-20 minutes
- Call a poison control center or doctor for treatment advice

IF SWALLOWED

PAGE 2 - MASTER LABEL FOR **GOLDSHIELD®5**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow
- Do not induce vomiting unless told to do so by a poison control center or doctor
- Do not give anything by mouth to an unconscious person

A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae. This product does not protect users or others against food-borne or disease-causing bacteria

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses. This pesticide is toxic to fish when discharged in bulk. 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.

De-activation may be required during clean up if a spill occurs. De-activation of **GOLDSHIELD®5** can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of **GOLDSHIELD®5**.

Homeowner use. This pesticide is toxic to fish. When discharged in bulk, Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications
 Approved commercial applications used in homes, offices, automobiles and industrial facilities
 e.g., schools, hospitals, daycare centers, churches, correctional facilities

<p>ACCEPTED</p> <p>JUL 6 2012</p> <p>Under the Federal Insecticide Fungicide and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 055526-1</p>

PAGE 3 - MASTER LABEL FOR **GOLDSHIELD @5**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solutions by simply adding **GOLDSHIELD @5** to solvent and stirring. Dilute **GOLDSHIELD @5** by adding 0.2 to 2 fluid ounces of **GOLDSHIELD @5** per cup (3.2 to 32 fluid ounces of **GOLDSHIELD @5** per gallon) of water or other solvents (for example, alcohol and ketones) and then applied to organic or inorganic substrates by brushing, dipping, soaking, spraying, to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply **GOLDSHIELD @5** every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

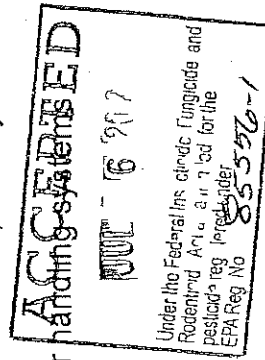
GOLDSHIELD @5 when used as a concrete additive is added directly during concrete preparation. Use 6 fluid ounces **GOLDSHIELD @5** per cubic feet of concrete. Add to water before addition of concrete. Addition of **GOLDSHIELD @5** reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

GOLDSHIELD @5 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of **GOLDSHIELD @5** per 100 pounds of paint or coating (or 1 pound **GOLDSHIELD @5** per 20 pounds paint/coating). The addition of the antimicrobial agent **GOLDSHIELD @5** to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. **GOLDSHIELD @5** inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

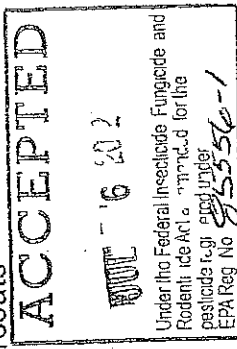
The active ingredient in **GOLDSHIELD @5** is effective against bacteria, fungi, odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. **GOLDSHIELD @5** can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity:

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air
- Air filters/materials
- Aquarium filter material



PAGE 4 - MASTER LABEL FOR **GOLDSHIELD** ®5

- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes manholes and concrete sewer structures not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewer structures not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- **GOLDSHIELD** ®5 can be used in paints and coatings as an in can preservative for protection of paint film and coating film
- Types of paints and coatings include latex indoor/outdoor paints and stains, wood-stains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinyl-ester and polyester coatings, gel coatings, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof,
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials - defined as shingles roofing granules, wood shakes felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains
- Socks comprised of nylon nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene/nylon/Lycra, wool/silk/nylon/Lycra and wool/acrylic/nylon/Lycra



PAGE 5 - MASTER LABEL FOR **GOLDSHIELD** ®5

- Throw rugs
- Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon polyester, polyethylene, polyolefins, polypropylene rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture cars walls windows floors appliances dishes counter tops the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

Approved commercial applications used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of **GOLDSHIELD** ®5 per gallon of water (2 oz per quart, 1oz per pint). Using pump sprayer, spray entire area 4"-6" from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. **GOLDSHIELD** ®5 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more **GOLDSHIELD** ®5 T may be required due to absorption. A fan may be used to assist in drying carpeting.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, pressure sprayers) dilute 8 ounces of **GOLDSHIELD** ®5 per gallon of water (2 oz per quart, 1oz per pint), mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. **GOLDSHIELD** ®5 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more **GOLDSHIELD** ®5 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpeting.

ACCEPTED
JUL 6 2014
Under the Federal Insecticide Fungicide and
Rodenticide Act
EPA REG. NO. 101-101-01

PAGE 6 - MASTER LABEL FOR **GOLDSHIELD®5**

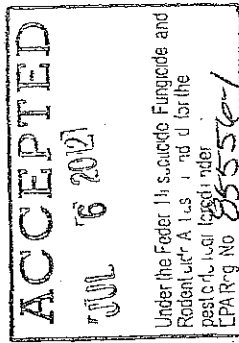
For Dipping/Soaking Application Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough **GOLDSHIELD®5** solution to completely submerge item. Dilute 8 ounces of **GOLDSHIELD®5** per gallon of water (2 oz per quart, 1oz per pint), mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperatures or at temperatures to a maximum of 160° C (320° F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary reapply **GOLDSHIELD®5** every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles and institutions
e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

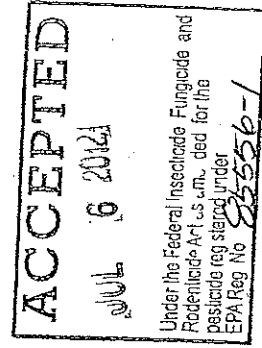
The active ingredient in **GOLDSHIELD®5** is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. **GOLDSHIELD®5** can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity

- Air filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, polyester, rayon, or wool
- Fiberglass ductboard
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Mens underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered



PAGE 7 - MASTER LABEL FOR **GOLDSHIELD** ®5

- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Roofing materials - defined as shingles, roofing granules wood shakes, felt, stone and synthetic overcoats
- Sand bags tents, tarpaulins sails, and ropes
- Athletic and casual shoes
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene/nylon/Lycra, wool/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs
- Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins polypropylene rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops, the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel



DIRECTIONS FOR USE
For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in **GOLDSHIELD @5** is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. **GOLDSHIELD @5** can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity:

	Pest controlled	Dilution Rate	Method of Application
<p>Bed-sheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear, apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos), GOLDSHIELD @5 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.</p>	<p>Odor causing bacteria, bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>DIP/SOAK Dilute GOLDSHIELD @5 in water mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough GOLDSHIELD @5 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Drying may be attained by dripping dry or wringing excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies) place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160 °C (320 °F) (for example in a clothes dryer). If necessary, reapply GOLDSHIELD @5 every three months or when odor staining and discoloration due to bacteria, mold, stains, and mildew stains return.</p> <p>SPRAY Dilute GOLDSHIELD @5 in water mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4-6 from the surface making sure the surface is completely covered.</p>

ACCEPTED
 JUL 6 2012
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, this label for the pesticide is approved for use.
 EPA Reg. No. 85556-1

PAGE 9 - MASTER LABEL FOR **GOLDSHIELD @5**

	Pest controlled	Dilution Rate	Method of Application
<ul style="list-style-type: none"> Air filters and air filter material for Furnaces, air conditioners Air purification systems Automobiles Recirculating air handling systems Vacuum cleaner filters Aquariums 	<p>Odor causing bacteria which cause staining and discoloration fungi (mold and mildew) and algae</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary reapply GOLDSHIELD @5 every three months or when odor, staining and discoloration due to bacteria mold stains and mildew stains return.</p> <p>SPRAY Dilute GOLDSHIELD @5 in water, mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4 - 6' from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply GOLDSHIELD @5 every three months or when odor, staining and discoloration due to bacteria mold stains, mildew stains and algae stains return.</p>
<p>Carpeting</p>	<p>Odor causing bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Method of Application</p> <p>SPRAY Dilute GOLDSHIELD @5 in water, mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4 - 6' from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted GOLDSHIELD @5 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. GOLDSHIELD @5 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g. wool carpeting) more GOLDSHIELD @5 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply GOLDSHIELD @5 every three months or when</p>

ACCEPTED
 JUL 6 2021
 Under the Federal Insecticide, Fungicide and Rodenticide Act, registered under EPA Reg. No. 5536-1

PAGE 10 - MASTER LABEL FOR **GOLDSHIELD** ®5

<p>odor staining and discoloration due to bacteria mold stains and mildew stains return</p>			
<p>Method of Application</p> <p>SPRAY Dilute GOLDSHIELD ®5 in water mix well Clean surfaces prior to application Using a trigger pump sprayer spray the entire surface area 4 - 6' from the surface making sure the surface is completely covered Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application When applying to mattress pads and ticking do not soak Remove children and pets from treated area until completely dried If necessary reapply GOLDSHIELD ®5 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return</p>	<p>Dilution Rate</p> <p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Pest controlled</p> <p>Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>Mattress pad and mattress ticking and upholstery composed of acetates, acrylics cotton fiberglass nylon polyester polyethylene, polyolefins polypropylene rayon spandex vinyl wool fiberfill to be used in upholstery sleeping bags apparel where the fiber is cotton natural down nylon rayon or wool</p>
<p>Method of Application</p> <p>SPRAY Dilute GOLDSHIELD ®5 in water mix well Clean surface prior to application Using a trigger pump sprayer or pressure sprayer spray the entire surface area 4 -6' from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application If necessary reapply GOLDSHIELD ®5 every three months or when odor staining and discoloration due to bacteria mold stains mildew stains and algae stains return</p> <p>DIP/SOAK. Dilute GOLDSHIELD ®5 in water and mix well Use appropriate sized wash basin or tub for dipping/soaking the item you are treating Use enough</p>	<p>Dilution Rate</p> <p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Pest controlled</p> <p>Odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae</p>	<p>Tents tarpaulins sails, ropes</p> <div data-bbox="1136 1449 1461 1848" style="border: 2px solid black; padding: 5px; transform: rotate(-15deg);"> <p>ACCEPTED JUL 6 2012</p> <p>Under the Feds et ins with de Fin gade and Rodent de H I pesticide C EPA Reg No 85556-1</p> </div>

<p>GOLDSHIELD ®5 solution to completely submerge item. Keep item in solution for three minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160 °C (320 °F) (for example in a clothes dryer). Remove excess liquid before attempting to dry in a clothes dryer. If necessary reapply GOLDSHIELD ®5 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p>			
<p>Method of Application</p> <p>SPRAY Dilute GOLDSHIELD ®5 in water mix well. Make sure the roof or wall is clean prior to application. Using a pressure sprayer, spray the entire surface area 6 -12' from the surface making sure the surface is completely covered. After applying the dilute solution of GOLDSHIELD ®5 let stand until dry. GOLDSHIELD ®5 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply GOLDSHIELD ®5 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.</p>	<p>Dilution Rate</p> <p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Pest controlled</p> <p>Odor causing bacteria bacteria which cause staining and discoloration fungi (mold and mildew) and algae</p>	<p>Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)</p>
<p>Method of Application</p> <p>SPRAY Dilute GOLDSHIELD ®5 in water mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4 -6' from the surface making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply GOLDSHIELD ®5 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.</p>	<p>Dilution Rate</p> <p>8 oz / gallon 2 oz / quart 1 oz / pint</p>	<p>Pest controlled</p> <p>Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)</p>	<p>Buffer pads (polishing and abrasive) Polyurethane and cellulose foam for household sponges and mops vacuum cleaner bags, umbrellas, casual shoes, athletic shoes</p>

ACCEPTED
JUL 6 2017
 Under the Federated Association Fungicide and
 Rodenticide Act

	Pest controlled	Dilution Rate	Method of Application
Tubs glazed tiles vanity tops shower curtains shower stalls (areas) sinks washable walls wall paper for non-food contact floors window sills cabinets garbage cans appliances refrigerators (exterior), fiberglass formica glazed tiles glazed porcelain synthetic marble plastic vinyl	Odor causing bacteria bacteria which cause staining and discoloration and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY Dilute GOLDSHIELD @5 in water mix well Using a trigger pump sprayer spray the entire surface area 4 - 6 from the surface making sure the surface is completely covered Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge If spotting occurs wipe with moist cloth or sponge if necessary reapply GOLDSHIELD @5 every three months or when odor staining and discoloration due to bacteria mold stains and mildew stains return

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR GOLDSHIELD @5 is an antimicrobial agent effective against odor causing bacteria

GOLDSHIELD @5 is an antimicrobial agent effective against bacteria which cause staining and discoloration

GOLDSHIELD @5 is an antimicrobial agent effective against fungi (mold and mildew)

GOLDSHIELD @5 is an antimicrobial agent effective against algae

GOLDSHIELD @5 an antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen Bacteriostatic, fungistatic (mold and mildew), algae static

GOLDSHIELD @5 an antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes

GOLDSHIELD @5, an antimicrobial agent, inhibits the growth of odor causing bacteria

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home

Effective on modern hard non-porous washable surfaces made of fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble

Imparts microbiostatic properties

Use on carpet and upholstery to inhibit odor causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)

Unscented

Use on carpet and upholstery to inhibit the growth of odor causing bacteria

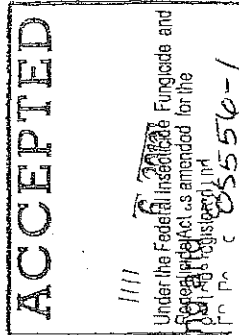
Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew)

Use on carpet and upholstery to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae

Provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria

Provides an invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration



PAGE 13 - MASTER LABEL FOR **GOLDSHIELD** ®5

- Provides an invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew)
- Provides an invisible microbiostatic coating to inhibit the growth of algae
- Provides an invisible microbiostatic coating to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae
 - Prevents deterioration caused by bacteria and fungi (mold and mildew)
- Inhibits deterioration caused by bacteria
- Resists development of microbial odors
- Resists development of stains and discoloration due to bacteria
- Resists development of stains due to fungi (mold and mildew)
- Resists stains due to algae
- Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae
- Provides/creates an invisible barrier to inhibit the growth of odor causing bacteria
- Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration
- Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew)
- Provides/creates an invisible barrier to inhibit the growth of algae
- Provides/creates an invisible barrier to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae
- Provides/creates an invisible barrier to inhibit the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae

STORAGE AND DISPOSAL

Up to 5 gallons

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal

Pesticide Storage Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies

Pesticide Disposal Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility [For

Home owners use the statement will read Pesticide disposal Wastes resulting from the use of this product must be disposed of on site]

ACCEPTED
JUL 6 2024
Under the Federal Insecticide Fungicide and
Rodenticide Act as required for the
pesticide...

PAGE 14 - MASTER LABEL FOR **GOLDSHIELD @5**

Container Disposal Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after flow begins to drip Repeat this procedure two more times Offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning If burned, stay out of smoke [For homeowners use statement will read
Container Disposal Securely wrap original container in several layers of newspaper and discard in trash]

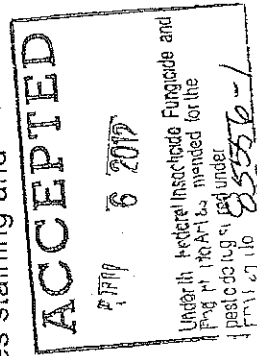
5 gallon containers and larger (not for homeowner)

STORAGE AND DISPOSAL

Pesticide Storage Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies
Pesticide Disposal Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

Container Disposal Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times Offer for recycling if available or dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning If burned, stay out of smoke

Note Any claims for paint use must be for the preservative of the paint in the can **GOLDSHIELD @5** is to be used as an in can preservative for paints to control the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae



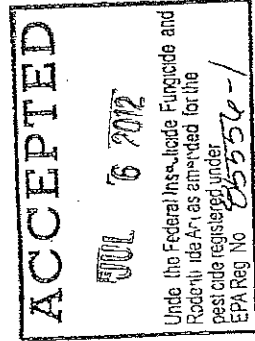
PAGE 15 - MASTER LABEL FOR **GOLDSHIELD** ®5

FOR MORE INFORMATION CONCERNING THIS PRODUCT PLEASE CONSULT THE MATERIAL SAFETY DATA SHEET (MSDS) THE MSDS CAN BE OBTAINED BY WRITING AP Goldshield LLC 9570 Pan American Dr El Paso Texas 79927 or emailing customerservice@goldshieldtech.com

IMPORTANT WARRANTY AND DISCLAIMER INFORMATION

AP GOLDSHIELD LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin when used in accordance with directions under normal conditions of use but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to bulletin instructions or under abnormal conditions or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use

AP GOLDSHIELD LLC SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING THE WARRANTY OF MERCHANTABILITY



ATTACHMENT C

O'Neill, Maureen

From: Goldshield <info@goldshield1.com>
Sent: Thursday, January 08, 2015 3:22 PM
To: O'Neill, Maureen
Subject: [31400109], Confirmed order at Goldshield Shop, total \$241.41



Hello Maureen E O'Neill,

Your order number:
31400109

Your order password:
p_a6c5b

[view your order online](#)

Your order Total: \$241.41

Your order status is: Confirmed

Bill To

Ship To

oneill.maureene@epa.gov
Maureen E O'Neill
77 W. Jackson Blvd.
Chicago
United States
Illinois
60604 312-886-7158

Shipment
Purdue University
Ping Wan
Biochemistry Department
175 S. University Street
West Lafayette
United States
Indiana
47907 847-942-6092

SKU	Product Name	Product status	Price	Qty	Tax	Discount	Total
GS85/032L/001	<u>GS85 32 oz. Spray Bottle</u>	Confirmed	\$14.00	1	\$0.00	\$0.00	\$14.00
GS5/001L/001	<u>GS5 1 Gallon Concentrate</u>	Confirmed	\$195.00	1	\$0.00	\$0.00	\$195.00
GS75/032L/001	<u>GS75 32 oz. Spray Bottle</u>	Confirmed	\$20.00	1	\$0.00	\$0.00	\$20.00
Product Subtotal					\$0.00	\$0.00	\$229.00

Shipping UPS Ground	\$0.00		\$12.41
	\$0.00		\$0.00
Total	\$0.00	\$0.00	\$241.41

Thank you for purchasing at AP Goldshield LLC
AP Goldshield LLC
Goldshield Shop

Today's only evidence-based, long-lasting antimicrobial.

Don't start the day without your "invisible" protective shield!

Thank you for your Order!

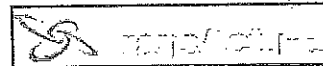
Page 1 of 1

Thank you for your Goldshield order!

Payment Name Credit Card VISA, MasterCard, American Express or Discover
Order number 31400109
Amount 241.41 USD
Transaction ID 6822032799

- [Privacy Policy](#)
- [Terms and Conditions](#)
- [Sitemap](#)

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United States
Environmental Protection Agency
Washington, DC 20460

PRORJAN-9R2S2U

BANKCARD PROCUREMENT REQUEST/ORDER

29(a). Custodial Area	1. Name of Originator Rita Jackson		2. Date of Requisition 11/20/2014
29(b). Local Tracking / Miscellaneous	3. Mail Code	4. Telephone Number (312) 886-9021	5. Date Item Required 11/26/2015
6. Signature of Originator <i>CN=Darlene Weatherspoon/OU=R5/O=USEPA/C=US</i>		7. Recommended Procurement Method <input type="checkbox"/> Competitive <input type="checkbox"/> Other than full and open competition <input type="checkbox"/> Sole source small purchase	

8. Deliver To (Project Officer) Rita Jackson	9. Address 77 West Jackson Blvd., Chicago, IL 60604		10. Mail Code C-14J	11. Telephone Number (312) 886-9021
12. Suggested Source (Name, Address, ZIP Code, Phone/Contact) Name A.P. Goldshield, LLC Address 9570 Pan American Drive City El Paso State Texas Zip 79927 Phone 915-858-0971 Contact		13. Amount of money committed is: <input type="checkbox"/> Increase <input type="checkbox"/> Decrease <input checked="" type="checkbox"/> Original <input type="checkbox"/> Cancellation		14. For Small Purchases Only: Contracting Office is authorized to exceed the amount shown in Block 26 by 10% or 100, whichever is less. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

15. Approvals

a. Branch/Office <i>CN=Bertram Frey/OU=R5/O=USEPA/C=US</i> Bertram C. Frey, Deputy Regional Counsel	Date 11/24/2014	d. Property Management Officer/Designee	Date
c. Funds listed in Block 26 and Block 14 (if any) are available and reserved. (Signature and phone number of Certifying Officer) <i>CN=Miranda Harper/OU=R5/O=USEPA/C=US</i> Miranda Harper, Budget Analyst	Date 11/25/2014	f. Other (Specify)	Date

16. Date of Order	17. Order Number	18. Contract Number (if any)	19. Discount Terms
20. FOB Point	21. Delivery of FOB Point by ON or before (Date)		22. Person Taking Order/ Quote and Phone Number

23. Contractor (Name, Address, Zip Code)	24. Type of Order <input type="checkbox"/> a. Purchase <input type="checkbox"/> b. Delivery provisions on the reverse are deleted. The delivery order is subject to the terms and conditions of the contract. (See Block 19) <input type="checkbox"/> Oral <input type="checkbox"/> Written <input type="checkbox"/> Confirming	Reference your Quote (See block 22) Please furnish the above on the terms specified on both sides of this order and on the attached sheets, if any, including delivery as indicated.
--	--	---

25. Schedule

Item Number (a)	Supplies or Services (b)	Quantity Ordered (c)	Unit (d)	Estimated Unit Price (e)	Unit Price (f)	Amount (g)	Quantity Accepted (h)
1	Requesting to order on internet pesticides products for a FIFRA case. Goldshield 85 32 oz) ; 5 (1 gallon) and 75 (32 oz). Shipping & Handling Maureen O'Neill will be using her bankcard	1	Each	\$14.00		14.00	
		1	Each	\$195.00		195.00	
		1	Each	\$20.00		20.00	
		1	Each	\$30.00		30.00	
Total \$						259.00	

26. Financial And Accounting Data

1	DCN (Max 7) DBE003	Budget/FYs (Max 4) 1516	Appropriation Code (Max 6) B	Budget Org/Code (Max 7) 05D	Program Element (Max 9) ZZZGF2	Object Class (Max 4) 2629	SFO 05 (MAX 2)
2							
3							
		Amount (Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)		
1		\$259	00				
2							
3							

27. United States of America By (Signature)	28. Typed Name and Phone of Contracting Officer	Phone
---	---	-------

Audit Trail for Procurement Request with Routing Slip

PDF Name:EPA1900-8av5.pdf

Form Number:EPA1900-8a

Document Identifier:EPA1900-8a-14324143010-RJ

PREPARED on 11/20/2014 at 03:30:54 PM by CN=Rita Jackson/OU=R5/O=USEPA/C=US

AUTHOR CHANGED on 11/20/2014 at 03:30:54 PM to CN=Darlene Weatherspoon/OU=R5/O=USEPA/C=US

SUBMITTED on 11/20/2014 at 03:58:12 PM by CN=Darlene Weatherspoon/OU=R5/O=USEPA/C=US

APPROVED on 11/24/2014 at 04:02:16 PM by CN=Bertram Frey/OU=R5/O=USEPA/C=US

MODIFIED on 11/25/2014 at 01:04:10 PM by CN=Miranda Harper/OU=R5/O=USEPA/C=US - Block 26

COMPLETED on 11/25/2014 at 01:04:10 PM by CN=Miranda Harper/OU=R5/O=USEPA/C=US

Purchase Card Transaction Review

 Transactions since 10/17/2014

Cardholder Name	Trans#	Posted	Merchant / Category	Type	Amount	Status	Commitment FOC	Allocated	Days
Maureen E O'Neill	1577032	01/12/15	Goldshield Industries 7298 Health And Beauty Spas	Purch	241.41	Allocated	1505DBE003 2629	241.41	2
Total:					241.41			241.41	

The Office of Acquisition Management provides this [Purchase Card Web Site](#) for cardholders. Before disputing any purchase card transaction please review the appropriate guidelines.

SP2 JPMC Bank (Fleet): [Dispute Guidelines](#) Customer Service:(888)297-0781

SP2 JPMC Bank (Purchase): [Dispute Guidelines](#) Customer Service:(888)297-0781

Purchase Card Program issues: [Linda McKay](#) (202)564-4361 [Relanda Bailey](#) (202)564-2940

Fleet Card Program issues: [Bryford Metoyer](#) (202)564-0310

Allocation and Finance issues: [Lindsey Williard](#) (513)487-2827 [Patti Andrews](#) (513)487-2067

Card Addendum Detail

The data presented is what was received from the card provider as submitted by the merchant at the time of the transaction.

Account Name Epa

Transaction Record Information for this transaction

Posting Date	Merchant Information	Amount	Reference Number	Sales Tax	Transaction Type
01/14/2015	Payment Received - Thank You,	\$559.79	75568205013000000008728	\$0.00	Payments

ATTACHMENT D

PACKING LIST

AP GOLDSHIELD LLC
PO BOX 428
LOCUST VALLEY, NY 11560
646-701-2488

Pack List Number: A131511
Shipping Date: 01/13/15

Ship To:

RWM TECHNOLOGIES, LLC
 3801 N HAWTHORNE ST
 CHATTANOOGA, TN 37406

PURDUE UNIVERSITY
 PING WAN (BIOCHEMISTRY DEPT)
 175 S. UNIVERSITY ST.
 WEST LAFAYETTE, IN 47907

Contact Name:
 AMY HEADRICK

Shipping Method		Customer P.O. / Rev #		Required By Date			
UPS		GTN-5024					
Item Number	Item Description	Cases Ordered	Cases Shipped	Unit of Measure	QTY ORDERED	QTY SHIPPED	Unit of Measure
	GS5 ONE GALLON LOT# L0314-001 GS75 32OZ LOT# J2814-003 GS85 32OZ LOT# C0414-011 <u>SPRAYERS</u> J0212-001				1	1	EA
					1	1	EA
					1	1	EA
					2	2	EA
MSDS	GS5/75/85 MSDS					1	EA

NOTES:

JAN 15 2015

Total Weight: LBS

ATTACHMENT E

Office of

INDIANA STATE CHEMIST AND SEED COMMISSIONER



Protecting Indiana's Agriculture and Environment - Feed, Fertilizer, Pesticide and Seed

Robert D. Waltz, Ph.D.
State Chemist &
Seed Commissioner

Purdue University • 175 South University Street
West Lafayette, IN 47907-2063
Telephone (765) 494-1492 • Facsimile (765) 494-4331
www.isco.purdue.edu

February 3, 2015

Meghan Dunn
Pesticides and Toxics Compliance Section
U.S. EPA - Region 5 (LC-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

RE: Lab report for the chemical analysis for active ingredients in Goldshield formulation samples

Sample Receipt

Three separate intact containers of three different Goldshield disinfectant products were shipped from Amy Headrick, RWM Technologies LLC, Chattanooga, TN and received in a single mailing package by the Purdue Biochemistry Storeroom on January 16th, 2015. In accordance with the Biochemistry Department package pick-up protocol, the storeroom clerk Ms. Kay Wood notified Ms. Natalie Wilson, one of the analysts in the OISC pesticide laboratory, via email that the package containing the disinfectant products was available for pick-up. Since Ms. Natalie Wilson was out of the office on that day, Ms. Kay Wood then asked Ms. Jodi Zeltner, an employee of the OISC fertilizer laboratory, to hand-deliver the package to the pesticide laboratory later that day. The containers remained sealed in the original package and in the locked restricted access OISC pesticide laboratory facility until Ms. Wilson logged them into the OISC sample tracking and processing system on January 20th, 2015.

All samples were received in good, intact condition. In accordance with standard OISC sample handling and processing procedures, the samples were assigned unique OISC sample identification numbers of 2015-5001 through 5003. Three Sample Information Sheet (SIS) packets, which are the paperwork that accompany each sample through the OISC laboratory, have been attached to this report.

Sample Number

2015-5001
2015-5002
2015-5003

Product Name

Goldshield GS 85 Ready to Use
Goldshield GS 75 Ready to Use
Goldshield GS 5 Concentrate

Sample Analyses and Results

Percent active ingredients were tested for each product using a titrimetric method published by Price and Wan, J. AOAC 93(5) 2010. This method describes an analytical procedure for the analysis of quaternary ammonium salts in disinfectants and cleaning products. The equivalent amount of quaternary salt, expressed in percent nitrogen, is determined by the titration of sodium lauryl sulfate solution via potentiometric titration

with a surfactant electrode. An OISC quality control (QC) sample was included in the analysis and the QC sample analytical results fell within the OISC parameters per QA requirements.

Results of the percent active ingredients found in the samples are summarized below:

OISC Sample #	Product Name	CAS #	Active Ingredient Name	EPA Reg #	Claim Percent Active	Converted to Claim Percent Nitrogen	Percent Nitrogen Found
2015-5001	Goldshield GS 85	27668-52-6	3-(trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride	Not registered	0.75	0.021	0.030
2015-5002	Goldshield GS 75	199111-50-7	1-octadecanaminium, N,N-dimethyl-N-[3-(trihydroxysilyl)propyl]-chloride	85556-2	0.75	0.023	0.023
2015-5003	Goldshield GS 5	199111-50-7	1-octadecanaminium, N,N-dimethyl-N-[3-(trihydroxysilyl)propyl]-chloride	85556-1	5	0.15	0.14

Attachments

OISC Sample Information Sheet packets including the original chain of custody records and summary of analytical results.

Photos of the shipping package and three product containers with detailed label information shown.

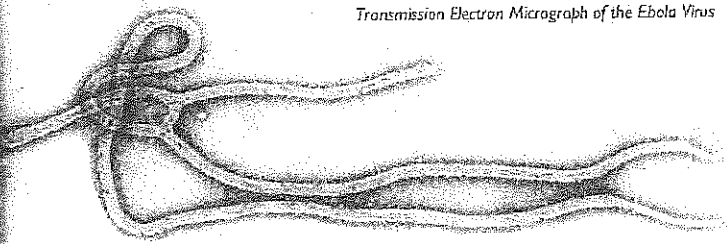
For questions about the analytical results, please contact Ping Wan at (765) 494-1570 or wanp@purdue.edu.

ATTACHMENT F

EBOLA VIRUS makes world news!

CLICK HERE to see how Goldshield can help kill, remediate and protect you and your family as it helps Ebola-infected patients.

Transmission Electron Micrograph of the Ebola Virus



Incredible Facts
Free Samples
Hot News

Healthcare

There are multiple ways to use Goldshield's hand sanitizer (GS24) and wet wipes (GS47) to inhibit germs and bacteria, particularly on one's hands (70% of infection starts from bacteria on our hands) and on such everyday items as cell phones, shopping cart handles, gas station pump handles, bathroom door handles, on and on.

For personal use ... Goldshield's hand/body sanitizer (GS24) and at-home surface antimicrobial agents (GS5 and GS75) are best in class products to keep one's body and home sanitized.

- For details on our GS24 hand/body sanitizer [Click here](#)
- For details on our GS5 and GS75 surface antimicrobial agents [Click here](#)

For laundry applications ... for commercial and at home use to keep bed linens/pillow cases, drapes, fabrics, clothes, virtually any textile sanitized for a continual period of time after just one application, [Click here for details.](#)

For commercial and at home "deep cleaning" ... use our first-of-its-kind High Heat Vapor machine to kill on contact and eradicate mold, mildew, bed bugs, even C'diff spores and provide persistent killing action thereafter. [Click here for details.](#)

A "game-changer" coming in 2013 ... the discovery that Goldshield's new foot formula can remediate athletes foot by killing the fungi involved. This discovery is being actively pursued based on the success with on-going tests in the U.S. military (see photo at right).



◆

If you are interested in being added to our Email List so we can notify you when our athletes foot remediation product line is available, [Click here](#)

◆

Many people go into a hospital trying to get better but come out worse due to hospital-acquired infections. The CDC attributes 70% of these cases to hand contact. GS24 and GS47 are antiseptic and antimicrobial products that provide, unlike alcohol, residual protection mitigating the risks of immediate contamination.

Goldshield Antimicrobial Agents are approved for Hospital Use

Uniforms/bedding

GS5 can be applied to textiles and linens in a healthcare setting from sheets and pillow cases to shower and privacy curtains. Often doctor's lab coats are not cleaned frequently enough and a treatment with GS5 would prevent some of the major concerns which are staining, discoloration and odor resulting from nasty bacteria and fungi.

Air Filters

It is vitally important in a healthcare setting to insure the utmost in air quality. GS75 applied to filters is an ideal way to inhibit the same bacteria and fungi that can attach to filters.

Surfaces

Typical disinfectants or inhibitors used in hospitals generally provide no more than 10 minutes to one hour of residual protection. The Goldshield antimicrobial water stable agents provide weeks to a month of surface protection. That residual component permits these formulas to standalone in the world of antimicrobial and microbiostatic effectiveness and protection.

Additional uses

- In nursing and assisted living facilities, Goldshield could be used in the laundry and in clean-up of facilities to help eliminate odors from the environment.
- In the Institutional and Industrial (I&I) sector, Goldshield would have significant application in combating "sick building syndrome" – acute health symptoms caused by microorganisms such as viruses, mold, mildew and fungi. The Occupational Safety and Health Administration (OSHA) has estimated that 70 million American workers are exposed to office environments where this problem is present.
- Additional segments of the healthcare industry where Goldshield technology would find numerous applications include clinics, infirmaries and ambulatory care clinics, as well as veterinary centers.

-
- [Privacy Policy](#)
 - [Terms and Conditions](#)
 - [Sitemap](#)

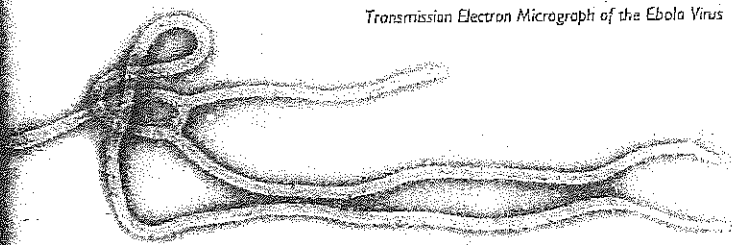
Copyright © AP Goldshield, LLC. 2015, Website Developed by



EBOLA VIRUS makes world news!

CLICK HERE to see how Goldshield can help kill, remediate and protect you and your family as it helps Ebola-infected patients.

Transmission Electron Micrograph of the Ebola Virus



Incredible Facts
Free Samples
Hot News

Quick Facts About Goldshield

Goldshield is the world's only functional organosilane compound that has been stabilized in water, patented and commercially available.

- **The First Water-Stable Solution**

Unlike other antimicrobial agents that claim antimicrobial killing action using alcohols, acids, metallics and phenol-based materials, Goldshield is the world's only organosilane, patented compound that has been stabilized in water, thereby being eco-friendly "green" and environmentally benign, non-toxic, mercury-free and non-flammable.

- **Covalently Bonds to Virtually Any Surface**

Goldshield creates a covalent bond, a cross-linking action, with virtually any surface. Its multi-dimensional polymeric structure ensures complete adhesion so that Goldshield actually becomes a part of the surface to which it is applied. [Click here](#)

- **Will Not Leach, Diffuse or Become Mobile**

Unlike conventional disinfectants and antimicrobials, Goldshield will not leach on skin (GS24) and on surfaces (GS75) and thus cannot be wiped off after it dries. Therefore, Goldshield's antimicrobial inhibiting action lasts for up to 30 days on surfaces and in textile applications (GS5) has been shown to retain effectiveness for up to 50 standard washes following one application.

- **Effective Against Broad Spectrum of Microbes**

Multiple independent studies have demonstrated Goldshield to be a broad-spectrum algacide, bactericide and fungicide. In these studies, Goldshield has been proven effective against Staphylococcus aureus, VRE, MRSA, Pseudomonas a., Salmonella, E.coli and other hardy Gram(+) and Gram (-) bacteria such as those which cause odor, staining and discoloration of textiles. [Click here](#)

- **Microbes Do Not Develop Resistance**

Since Goldshield kills instantly on contact, microbes cannot regenerate into "superbugs." [Click here](#)

- **Easy to Ship, Store and Apply**

Goldshield is water stable therefore it has a shelf life of over at least one and one half years and therefore is easy to ship, store and apply – by spraying, mopping, rolling on or fogging.

- **Cost-effective and Price Competitive**

Due to Goldshield's continual "invisible" shield that protects against microbes after only one application for up to 30 days on surfaces (GS75) and up to 24 hours on skin (GS24), Goldshield is very economical to use. [Click here](#)

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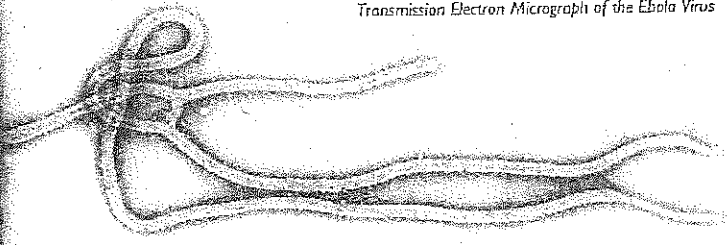
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EBOLA VIRUS makes world news!

CLICK HERE to see how Goldshield can help kill, remediate and protect you and your family as it helps Ebola-infected patients.

Transmission Electron Micrograph of the Ebola Virus



Accredited Facts
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Welcome to Goldshield®

Disinfection and prevention of bacterial contamination, from everyday living to in-hospital stays, is challenging. While a universal solution remains elusive, AP Goldshield LLC offers new chemistry that is unique in its power to continue to inhibit bacteria, mold, mildew and fungi after it dries following application; continual protection is key to reducing risk!... *Get Your Shield On!*

All Goldshield (GS) products are water-based, alcohol-free, non-toxic, non-irritating to the skin (GS24), non-flammable, environmentally benign and manufactured in the USA in a pharmaceutical grade "clean room" environment under strict ISO protocols. [Click here](#) to learn more about the hazards of alcohol-based hand sanitizers.

Goldshield's Product Line

- **GS24** antiseptic foam hand sanitizer
 - travel/family sizes, wall dispensers
- **GS47** antiseptic wet wipes
 - 40 unit canister, 10 unit travel pack, singles
- **GS10** all-purpose "green cleaner"
 - hand spray bottles, gallon, drum
- **GS75** ready-to-use surface antimicrobial
 - hand spray bottles, gallon, drum, tote
- **GS5** surface antimicrobial "concentrate"
 - gallon, drum, tote
- **Deep cleaning equipment, sprayers, microfibers**
 - commercial and residential



Homeowners

[Click Here](#)

Industrial Users

[Click Here](#)

Quick Facts

[Read More](#)

GS Brochure

[Read](#)

GS Video

[View](#)

- One squirt of our Hand Sanitizer (GS24) on skin (hands, feet, etc.) provides an "invisible" protective shield that will protect for as much as up to 24 hours against 99.99% of disease-causing bacteria including MRSA, VRE, HIV, H1N1, E.Coli, Salmonella, to name just a few. FDA listed -- Labeler Code 40092.
- One spray of our Surface Antimicrobial agent (GS75) on indoor surfaces provides an "invisible" protective shield that can inhibit bacteria and fungi growth for up to 30 days, and on outdoor surfaces such as furniture and cushions Goldshield will prevent mold and mildew for up to 12 months. EPA approved -- Reg. 85556-1 and 85556-2.
- One washing with our Antimicrobial Concentrate (GS5) in laundry applications will inhibit bacterial growth that cause staining, odor, and discoloration for up to 50 additional washings. EPA approved -- Reg. 85556-1.

¹ Science has shown that general household disinfectants/cleaning agents provide only temporary protection on surfaces, generally an hour or less. On hands, alcohol evaporates in seconds posing risks of immediate re-contamination. Goldshield solves these concerns.

This is an international website. AP Goldshield LLC has attempted to accommodate the varying nuances associated with the many regulatory requirements of both domestic and international regulatory authorities.

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How Goldshield Can Help You.

Emory University in Atlanta, Georgia is a premier infection control specialist which is why they were chosen to treat patients infected with the Ebola virus.

Goldshield is a brilliant antimicrobial chemistry invented at Emory. Other antimicrobial products do not equal Goldshield's effectiveness, none have Goldshield's provenance and none have Goldshield's residual, persistent protection.

While we don't know yet what positive effect Goldshield might have on mitigating the Ebola virus, here's what we do know:

- Goldshield is an undisputed antiseptic for the human body (**GS24**) and an antimicrobial for inanimate surfaces (**GS75**) such as beds, mattresses, curtains, chairs, floors, walls, sinks, toilets, phones, TV remotes, etc.
- Goldshield, when used on the hands of Ebola-infected patients and on objects that surround them, **WILL** help them **AND** their caregivers stay bacteria-mitigated.
- Therefore, giving their body's natural defenses the opportunity to restrengthen, thus allowing the human body to fight the Ebola virus itself.

[Go To GS24 Page](#)

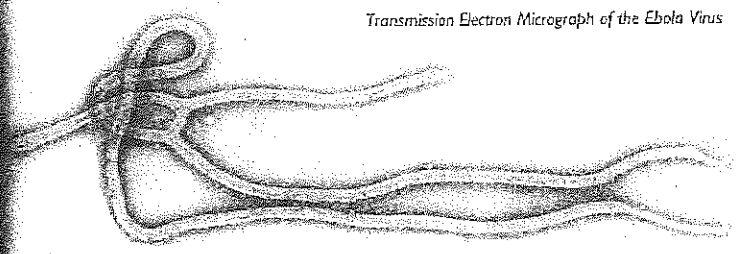
[Purchase Goldshield](#)

[Go To GS75 Page](#)

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CLICK HERE to see how Goldshield can help kill, remediate and protect you and your family as it helps Ebola-infected patients.

Transmission Electron Micrograph of the Ebola Virus



Incredible Facts
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No News

Unique Formulation

How GS Works, What Makes GS Different and Unique

Background: thirty years ago an antimicrobial technology was developed that used the organosilane compound 3-(trimethoxysilyl) propyl-dimethyloctadecyl ammonium chloride. However, as good as this compound was, there were these deficiencies:

- it had to be mixed with methanol (sometimes acids) in water to be useful
- this resultant mixture (often up to 50% methanol or other solvents by concentration) was very TOXIC, FLAMMABLE and UNSTABLE, therefore
- this resultant mixture was unstable in water which resulted in a larger molecule that could not fully bond to surfaces and thus would "leach," i.e., became mobile thus losing its effectiveness
- therefore the above also produced a compound that had to be used relatively quickly after being bottled because it could not be stored for very long therefore was not user-friendly and was costly to use.



Enter Goldshield: the chemistry developed at Emory University in Atlanta was brilliant and unique because it solved all the above deficiencies that had eluded the best chemists in the world for 30 years. *Goldshield today is the world's only patented, water stable, functioning organosilane that:*

- has been fully stabilized in water, therefore will not self-condense
- uses no methanol, acids or other solvents
- is environmentally benign, non-flammable
- is water-based as well and considered a "green" coating and odorless
- does not leach so forms a long-lasting covalent bond
- has a long in-bottle shelf life typically over a year and a half
- is very easy to apply via a traditional spray bottle
- is economical because a single application provides up to a 30-day "invisible" protective shield inhibiting a broad spectrum of bacteria, mold, mildew, fungi.

Here's How Goldshield's Core Technology Works

Through a variety of domestic and international regulatory testing protocols Goldshield products have been shown to possess very unique characteristics; they are both bio-static (inhibits) and bio-cidal (kills) a broad spectrum of bacteria, mold, mildew, fungi and even some viruses. This is due to Goldshield's unique water-stable organosilane molecular structure and patented compounds that are composed of three parts:

Part 1: is the "silane base." This is the compound that anchors and triggers the covalent bonding functionality which allows Goldshield 5 and 75 to adhere to surfaces and textiles and remain

durable for up to 30 days and for up to 50 subsequent washings. Goldshield's 5 and 75 resultant durability means Goldshield is not fugitive, i.e., does not leach or become mobile. Goldshield actually becomes part of the surface to which it is applied.

Part 2: is the "nitrogen" molecule, which is positively charged (+). Key: many microbes are negatively charged; therefore, as in nature, the nitrogen molecules in Goldshield "attract" the negatively charged microbes toward them until contact.

Part 3: is a long carbon chain that releases an ionic charge that literally punctures the microbe's cell membrane upon contact hereby instantly killing the microbe ... *mechanically*. At the same time, the quaternary compound component of Goldshield denatures the microbe's proteins, which assures the microbe's kill ... *chemically*. This DUAL killing functionality is unique to Goldshield and very important because a DUAL kill assures an INSTANT KILL ON CONTACT, therefore microbes do NOT have time to regenerate into "superbugs". There are no other water-stable antimicrobial chemistries available today that function in this manner.

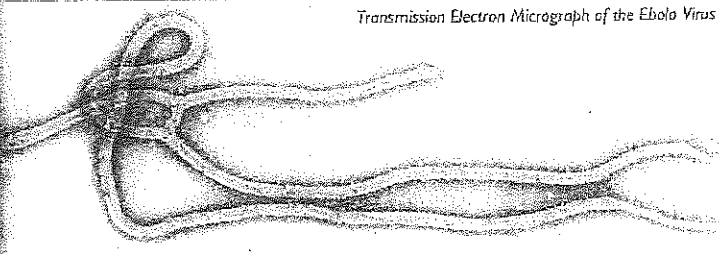
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Industrial FAQs

Q. Where and how are Goldshield products manufactured?

A. Goldshield products are manufactured in the USA at an FDA-certified pharmaceutical facility in a "clean room" environment to assure no product contamination. All protocols followed in our operations are those set by the demandingly strict International Organization for Standardization.



Q. What is the difference between Goldshield 5, 75 and 100?

A. Goldshield 75 and 100 are ready-to-use products. Goldshield 5 is a liquid "concentrate" which the user dilutes in water ... mix 1 part/gallon of concentrate with 5 parts/gallons of concentrate to make 6 parts/gallons of ready-to-use product. Goldshield 5 is used in concentrate form in laundry applications, [Click Here](#). Use GS100 instead of GS75 where the surfaces are porous, such as cement, to assure complete penetration where extra strength antimicrobial protection may be indicated.

Q. What is Goldshield's Surface Antimicrobial "active ingredient"?

A. Goldshield's Surface Antimicrobial is an environmentally benign liquid solution that uses an organosilane as the "active" agent that, through the use of additional chemistry, was able to be stabilized in water. The chemistry eluded the industry for over 25 years.

Q. What is Goldshield's Surface Antimicrobial's Environment Protection Agency ("EPA") toxicity rating?

A. This product has been identified by the EPA to have a toxicity rating of 4, which is the most benign classification the EPA provides, that requires only the following precautionary statement on our labels: "Keep Out of Reach of Children". Goldshield is the only water-stable, patented, functional organosilane technology in the world.

Q. Where can Goldshield's Surface Antimicrobial be used?

A. Goldshield is approved to be used in virtually any environment including homes, hospitals, daycare centers, churches, offices and hotels and restaurants. This is so because Goldshield is water-based, no alcohol, non-toxic, non-flammable and extremely safe to use.

Q. How is Goldshield so effective against a broad spectrum of bacteria and fungi?

A. Goldshield has a completely different killing functionality than traditional disinfectants. Most disinfectants such as bleach encapsulate organism releasing their toxic chemical into the organism to kill it and this functionality typically takes between 3-10 minutes to kill and denature the organism's proteins. This timeline also poses the risks of the organisms' to genetically adapt or become "super-bugs". Goldshield has a long carbon chain that releases an ionic charge that destroys the cell structure "mechanically," while at the same time uses its chemistry to denature the organism's proteins killing the organism on contact. This dual functionality is unique to Goldshield 5 and 75.

Goldshield 5 and 75 also form a strong chemical bond to a surface and will not leach off or become mobile. Disinfectants, including bleach, leave trace amounts of organic material on surfaces that can pose respiratory risks, Goldshield 5 and 75 will not.

When Goldshield's sanitizer is applied to one's skin, GS attaches to the skin cells through the carbohydrates on the skin and will remain effective until the skin cells are sloughed off. However, alcohol actually penetrates the cells and gets into one's blood stream, which can cause toxic issues.

Q. How has the Company proven their claims of performance?

A. The Company has amassed over 30+ evidenced-based studies [Click Here](#), all conducted by independent laboratories, and has received a peer-review publication in the American Journal of Infection Control, by a study of the Henry Ford Hospital's Infectious Disease lab [Click Here](#).

Q. Can Goldshield's Surface Antimicrobial be applied to textiles?

A. Yes, in both a commercial laundry and when doing laundry at home. Goldshield is added in the rinse cycle after scouring, and when applied under Goldshield recommended specifications, will remain effective for over 50 washes of the once-treated fabric. [Click Here](#).

Q. What detergent should I use when I wash my clothes with Goldshield?

A. We recommend any "nonionic or cationic" detergent which is easily available at any large grocery store (check out the label). The reason for this is because an "anionic" detergent or bleach will begin to neutralize Goldshield and limit its effectiveness after a few washes. Just review the label of active ingredients on your home detergent.

Q. Is Goldshield flammable like the other, often older, organosilane formulas?

A. No, since it is water-based, GS is not flammable.

Q. What is the shelf life of Goldshield products?

A. Under the Company's recommended storage directions, GS remains effective for up to 1.5 years, but in study after study we know GS remains stable for a lot longer.

Q. When Goldshield is applied to glass or marble is there any visible coating?

A. There can be a slight white film that becomes visible which is created by the silane of the Goldshield formula. To remove it all you do is take a damp cloth and wipe off the film, doing so will NOT remove Goldshield's active ingredient.

Q. If I purchase the Goldshield Surface Antimicrobial "concentrate" instead of the ready-to-use product, is there any specific water required to dilute Goldshield?

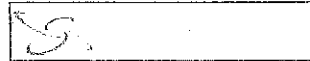
A. When we manufacture Goldshield we dilute with purified water to assure zero contamination of our product. However, there is no mandated requirement, you can use tap water if you like.

Q. When I spray Goldshield on a surface how long should I wait before removing moisture?

A. You want to be sure that Goldshield 5 or 75 has a chance to fully bond to the surface, so we recommend that you spray your room, contents and surfaces and then circle back and remove any moisture with an absorbent cloth. Doing so will NOT remove any of Goldshield's active ingredient.

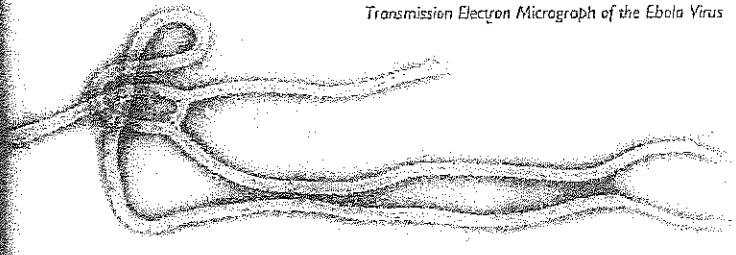
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Goldshield Features & Benefits

Goldshield's antimicrobial agents and antiseptic products offer a new generation technology to combat germs, bacteria and even certain viruses.

1. Goldshield's surface antimicrobial agents (**GS5** and **G75**) are water-stable, available in liquid spray for application to surfaces including fabrics. Independent studies have shown Goldshield's protective "invisible" shield ... after only one application ... will continue to perform for up to 30 days on surfaces; for over 50 fabric washings; and for more than 12 months on outdoor applications such as furniture cushions, etc. Also our GS5 and G75 are effective against bacteria that cause odor, staining and discoloration, and also remediates mold and mildew.

- GS5 and G75 have as their "active ingredient" the world's only organosilane, patented and commercially functional compound, that has been stabilized in water.

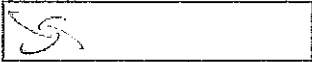
2. Goldshield's hand sanitizer (**GS24**) is water-based, alcohol-free, gentle foam that, provides up to a 24 hr protective "invisible" shield on your skin ... after just one application. GS24 kills 99.99% of disease-causing organisms which independent studies have shown include *MRSA*, *VRE*, *HIV*, *H1N1*, *Pseudomonas a.*, *E.Coli*, *Salmonella* and viruses to name just a few. Because it is water-based, Goldshield is non-toxic, non-irritating to skin, and safe for kids' use.

- GS24's "active ingredient" is Benzalkonium Chloride, and when combined with other Goldshield chemistry, provides the durable protection and unlike alcohol does not penetrate into the blood stream.



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TECHNICAL DATA SHEET

Goldshield75 **(Microbiostatic Agent)** EPA Registration No. 85556-2

PRODUCT DESCRIPTION

A water-stabilized organosilane 3-(trihydroxysily)propyldimethyl-octadecylamine ammonium chloride that provides effective antimicrobial properties on a wide variety of materials. *Goldshield75* Protectant is a water-based ready to use solution of a Silicone Quaternary Ammonium Salt that can provide a durable microbiostatic and antimicrobial finish when applied to siliceous surfaces, natural and man made fibers, metals, leather, wood, rubber, plastic and formica. For a general description of the typical chemical and physical properties refer to the Material Safety and Data Sheet.

BENEFITS

- Long Term Residual Protection
- Will not leach off surfaces or textiles
- Forms a covalent bond
- Effectively inhibits the growth of bacteria, fungi, yeasts and certain viruses on the treated surfaces of most substrates
- Protects against microbial deterioration, discoloration and odor
- Provides an invisible, durable microbiostatic finish
- Non-flammable
- Provides anti-static properties to surfaces
- Applies fast and easily
- Dries quickly after application
- Effective over a broad pH range (3-10)

SPECIFICATIONS:

PHYSICAL STATE	Pale white to semi-clear, liquid
APPEARANCE	Semi-Clear, colorless liquid
ODOR	Odorless
SOLUBILITY IN WATER	Complete
pH	4.0-5.0
VISCOSITY	<85.5mPa*s
VOLATILE CONTENT	Not applicable

APPLICATIONS

Goldshield75 Protectant provides an invisible, durable microbiostatic finish that protects the treated surface and textiles against bio-deterioration by inhibiting microbial growth, through a mechanical killing functionality. This product will deliver effective inhibition of bacteria, fungi, yeasts and certain viruses including mold/mildew and algae; thus protecting, surfaces against deterioration, discoloration and odors.

DIRECTIONS FOR INDUSTRIAL AND COMMERCIAL USE

Goldshield75 Protectant can be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging. Coverage rates vary depending on substrate treated, but generally cover 300-400s.f. when sprayer is used and 1000+ when fogger or steam is used. All substances can be dried at room temperature or at temperatures to a maximum of 160°C (320°F).

MATERIALS OF COMPATIBILITY

Goldshield75 Protectant is compatible with most materials including: wood, drywall, concrete, stucco, masonry, canvas, nylon, vinyl, plastics, PVC, CPVC, polyethylene, polypropylene, stainless steel, aluminum, metals, Kynar, Teflon, Viton and Hypalon and all textile materials.

COMPATIBILITY

Goldshield75 protectant's water-based formulation offers uniform dispensability and is compatible with a wide variety of materials and mixtures.

STORAGE AND HANDLING

Read the label and Material Safety and Data Sheet for complete handling information before using this product.

PACKAGING

Goldshield75 Protectant is packaged in 32 oz. spray bottles, one and five gallon containers, 55 gal. drums, and 275 gal. disposable totes.

REMARKS

If you need assistance or information, please call AP Goldshield LLC 516.277.1140 or email: info@goldshield1.com

For Medical and Transportation Emergencies involving this product call CHEMTREC (24 hour response): number 800-262-8200

TECHNICAL DATA SHEET

Goldshield5 (Antimicrobial-Microbiostatic & Long Term Disinfectant Agents)

EPA Registration No 85556-1

PRODUCT DESCRIPTION

A water-stabilized organosilane 3-(trihydroxysilyl)propyldimethyl-octadecylamine ammonium chloride) that provides effective antimicrobial properties on a wide variety of materials. This water-based product is easy to formulate and eliminates the hazards of conventional methane-based additives and heavy metal antimicrobials. *Goldshield5* is a stable aqueous solution of a Silicone Quaternary Ammonium Salt that can provide a durable microbiostatic and antimicrobial finish when applied to siliceous surfaces, natural and man made fibers, metals, leather, concrete, masonry, siding, drywall, wood, rubber, plastic and Formica. For a general description of the typical chemical and physical properties refer to the Material Safety and Data Sheet.

BENEFITS

- Effectively inhibits and persistently disinfects the growth of bacteria, fungi, yeasts and certain viruses such as mold/mildew, algae on various surfaces and textiles and H1N1, HIV B
- Protects against microbial deterioration, discoloration and odor
- Provides an invisible, durable microbiostatic finish
- Non-flammable
- Provides anti-static properties to surfaces
- Applies fast and easily
- Dries quickly after application
- Effective over a broad pH range (3-10)

SPECIFICATIONS

PHYSICAL STATE	Pale white to semi-clear, liquid
APPEARANCE	Semi-Clear, colorless liquid
ODOR	Odorless
SOLUBILITY IN WATER	Complete
pH	4.0-5.0
VISCOSITY	<85.5mPa*s
VOLATILE CONTENT	Not applicable

APPLICATIONS

Goldshield5 provides an invisible, long-term durable microbiostatic, antimicrobial prophylactic finish that protects surfaces against biodeterioration by inhibiting microbial growth. This product will deliver effective inhibition of bacteria, fungi, yeast and certain viruses; thus protecting, surfaces against deterioration, discoloration and odors for long periods of time with one application. It contains both static and bio-cidal properties.

DIRECTIONS FOR INDUSTRIAL USE

Goldshield5 can be diluted by adding 4 gallons of water to one gallon of GS 5, for 1% active or other dilutions such as: 3.2 to 32 fluid ounces per gallon of water then applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0% by weight by active ingredient (2.0 to 20% product). Exact dosages have been determined through microbiological laboratory evaluations conducted by AP Goldshield, LLC and can be recommended for your specific purposes. All substances can be dried at room temperature or at temperatures to a maximum of 160°C (320°F).

MATERIALS OF COMPATIBILITY

Goldshield5 is compatible with materials such as textiles, tiles, brick, cinder block, PVC, CPVC, polyethylene, polypropylene, stainless steel, aluminum, metals, Kynar, Teflon, Viton, Hypalon, plywood, lumber, roofing material, siding materials, drywall, sheathing, concrete, concrete block, residential, commercial and industrial application.

COMPATIBILITY

Goldshield5 is a water-based formulation and offers uniform dispensability and is compatible with a wide variety of materials and mixtures.

STORAGE AND HANDLING

Read the label and Material Safety and Data Sheet for complete handling information before using this product.

PACKAGING

Goldshield5 is packaged in one and five gallon containers, 55 gal. drums, and 275 gallon disposable totes.

PRODUCT USES: Hospitals and other healthcare facilities; Hospitality; Restaurants; Schools & Universities; Day Care Centers; Transportation vehicles and depots; Paints & Coatings; Building and Construction Materials; Liquid & Air filtration; Plastics; Marine, Agricultural; Animal Healthcare.

REMARKS

If you need assistance or information, please call AP Goldshield LLC 516.277.1140 or email: info@goldshield1.com

For Medical and Transportation Emergencies involving this product call CHEMTREC (24 hour response): number 800-262-8200

ATTACHMENT G

ANTHONY'S FOOD SERVICE SUPPLY

Goldshield® 75 MICROBIOSTATIC AGENT*

A Silicone Quaternary Ammonium Salt

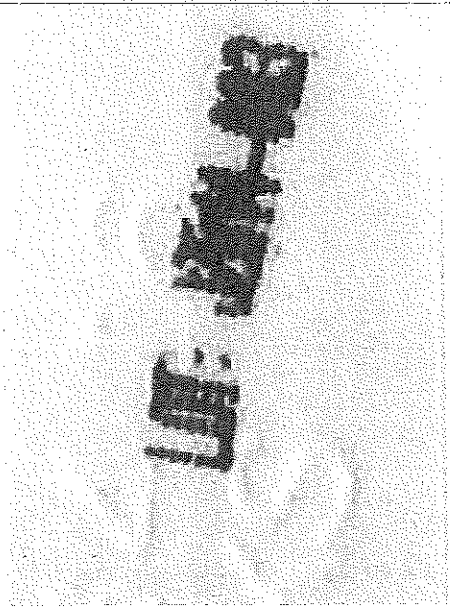
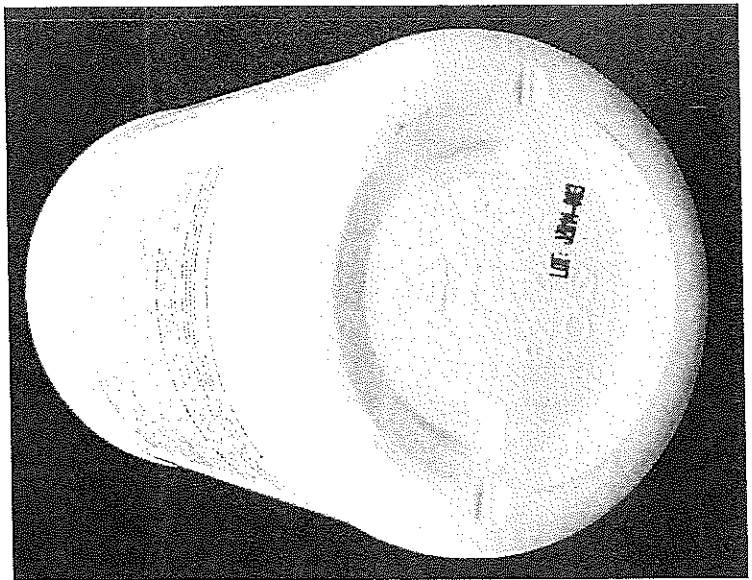
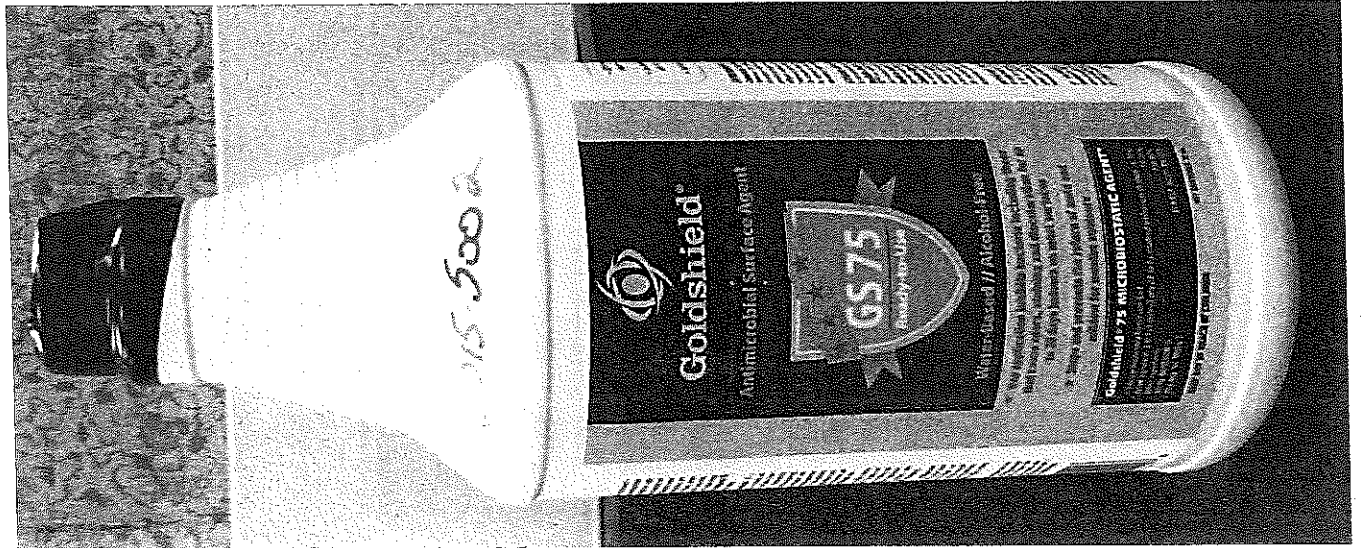
Active Ingredient: 3-(trihydroxysilyl) propyldimethylolactateyl ammonium chloride: 0.75%

Other Ingredients: 99.25%

TOTAL INGREDIENTS: 100.00%

EPA Reg. No. 85556-2 EPA EST. 86321-TN-001

KEEP OUT OF REACH OF CHILDREN. NET CONTENTS 1.0 LITER (33.8 FL. OZ.)



ENVIRONMENTAL HAZARDS

Commercial and Industrial Uses: This pesticide is toxic to fish. 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 the 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. De-activation may be required during clean up if a spill occurs. De-activation of Goldshield® 75 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of Goldshield® 75.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizer, and veterinary supplies.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

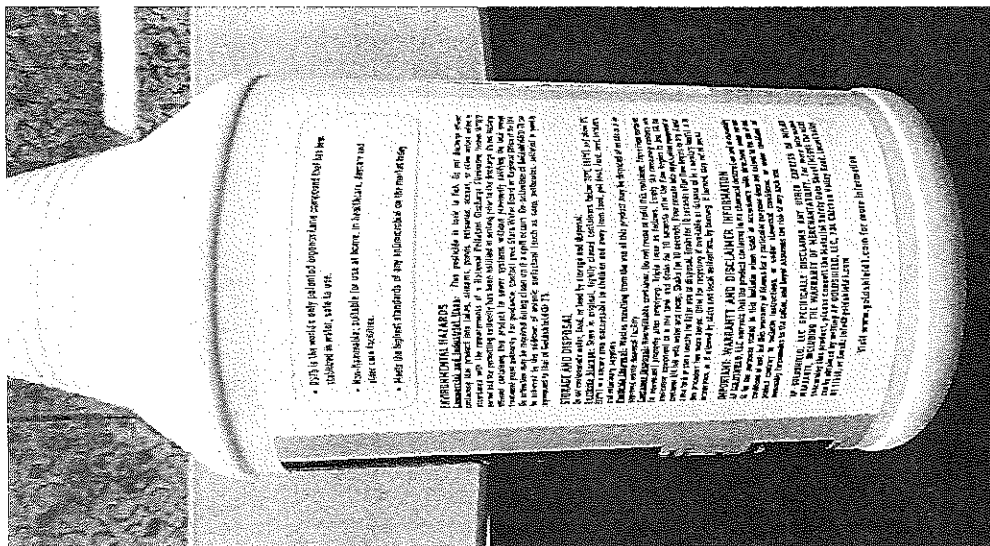
Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION

AP GOLDSHIELD, LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this bulletin when used in accordance with directions under normal conditions of use; but this warranty of fitness for a particular purpose does not extend to the use of this product contrary to bulletin instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

AP GOLDSHIELD, LLC SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY. For more information concerning this product, please consult the Material Safety Data Sheet (MSDS), The MSDS can be obtained by writing AP GOLDSHIELD, LLC, 734 Chicken Valley Road, Locust Valley, NY 11560, or Email: Info@goldshield1.com

Visit www.goldshield1.com for more information



• GS75 is the world's only patented organosilane compound that has been stabilized in water, safe to use.

• Non-flammable; suitable for use at home, in healthcare, daycare and elder care facilities.

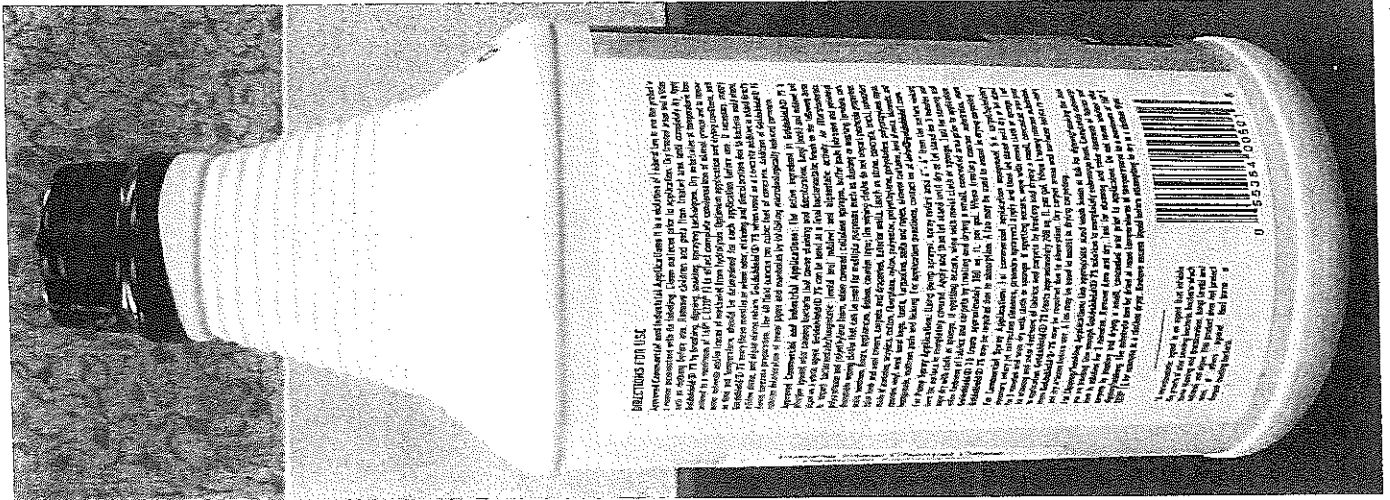
• Meets the highest standards of any antimicrobial on the market today.

DIRECTIONS FOR USE

Approved Commercial and Industrial Applications: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Clean surfaces prior to application. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Apply Goldshield® 75 by brushing, dipping, soaking, spraying techniques. Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply Goldshield® 75 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return. Goldshield® 75 when used as a concrete additive is added directly during concrete preparation. Use 40 fluid ounces per cubic feet of concrete. Addition of Goldshield® 75 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

Approved Commercial and Industrial Applications: The active ingredient in Goldshield® 75 is effective against odor causing bacteria that cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Goldshield® 75 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) and algaestatic activity. Air filters/materials, polyurethane and polyethylene foam, when covered; cellulose sponges, buffer pads (abrasive and polishing), disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, wells, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties; toilet tank and seat covers, carpets and draperies, exterior walls, such as stone, concrete, brick, upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; sand bags, tents, tarpaulins, sails and ropes, shower curtains, bed sheets, blankets, and bedspreads, mattress pads and ticking. For application questions, contact us at info@goldshield1.com

For Pump Spray Application, the surface making



DIRECTIONS FOR USE
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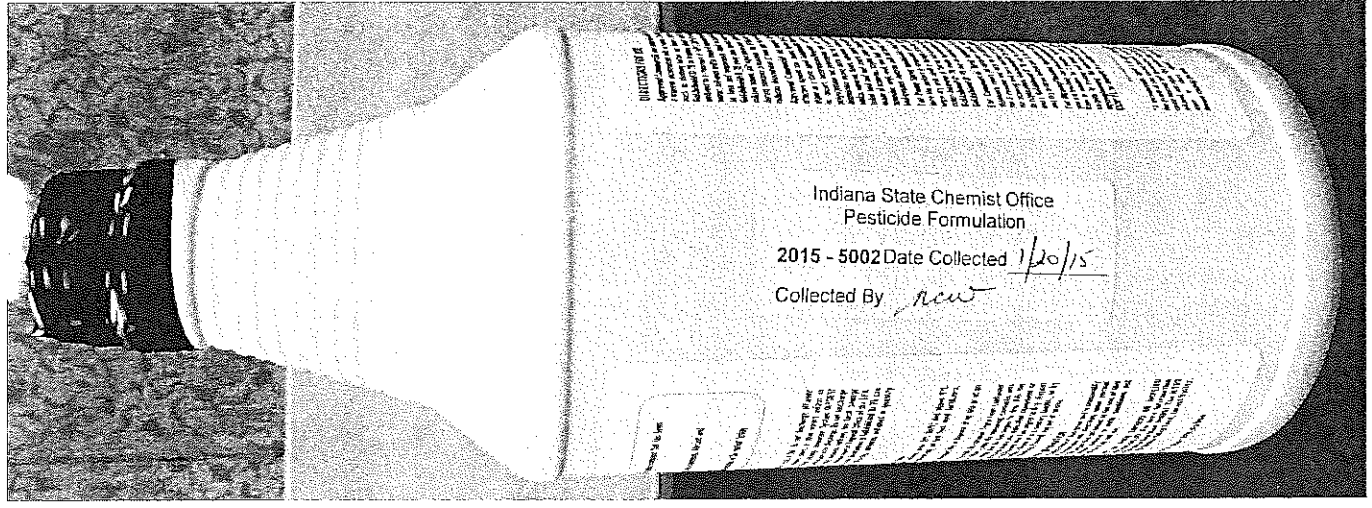
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For Pump Spray Application: Using pump sprayer, spray entire area 4' - 6" from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand for 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Goldshield® 75 treats approximately 200 sq. ft. per gal. When treating coarser substrates, more Goldshield® 75 may be required due to absorption. A fan may be used to assist in drying carpeting.

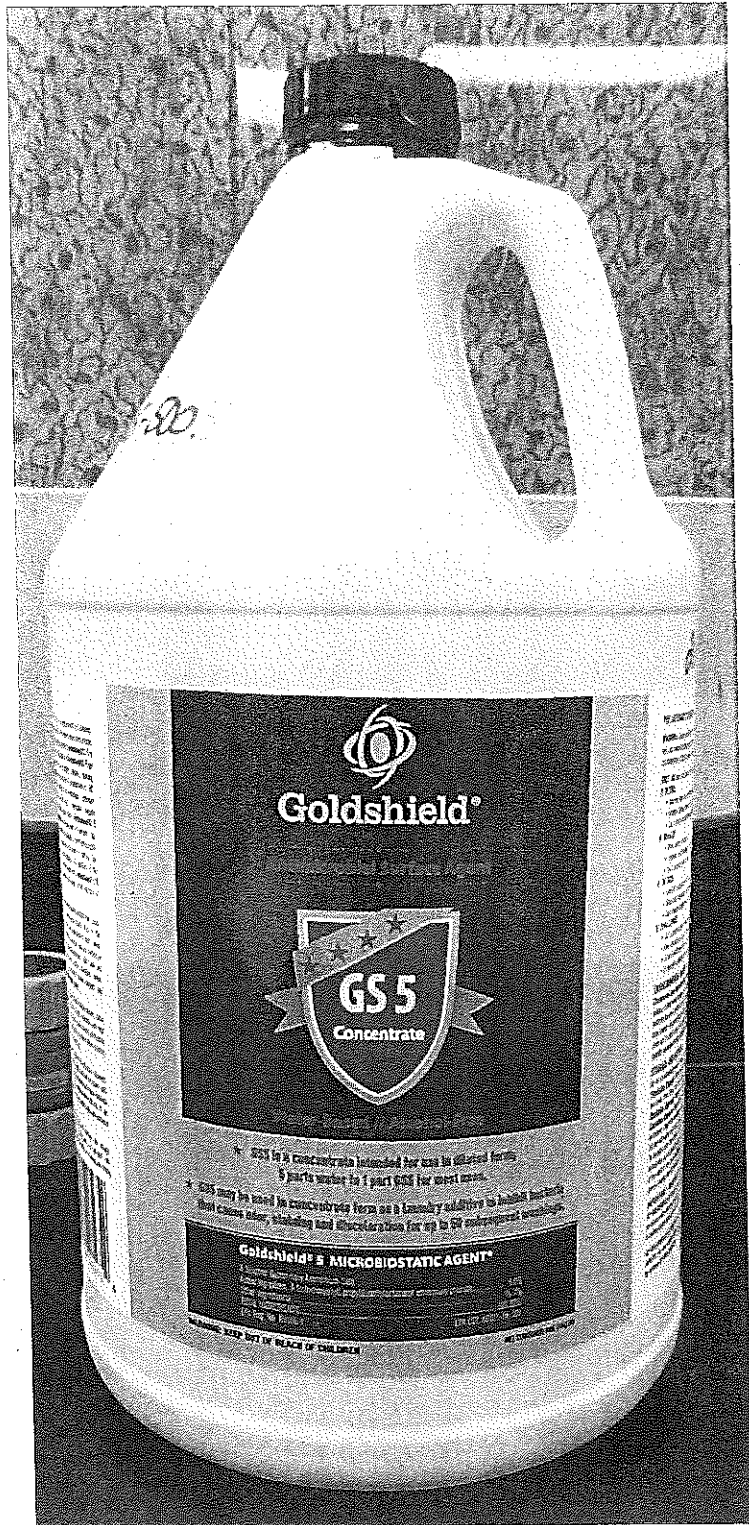
For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, pressure sprayers) apply and then let stand until dry or let stand for 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Goldshield® 75 treats approximately 200 sq. ft. per gal. When treating coarser substrates, more Goldshield® 75 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpeting.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Goldshield® 75 solution to completely submerge item. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking. The substrate can be dried at room temperatures at temperatures to a maximum of 140°F (60°C), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer.

*A microbistatic agent is an agent that inhibits the growth of toxic causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae. This product does not protect against food-borne or disease-causing bacteria.



ATTACHMENT H



Goldshield® 5 MICROBIOSTATIC AGENT*

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride..... 5.0%

Other Ingredients..... 95.0%

TOTAL INGREDIENTS..... 100.00%

EPA Reg. No. 85556-1

NET CONTENTS ONE GALLON

WARNING: KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNINGS: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID Have the product container or label with you when calling the poison control center or doctor, or going for treatment.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

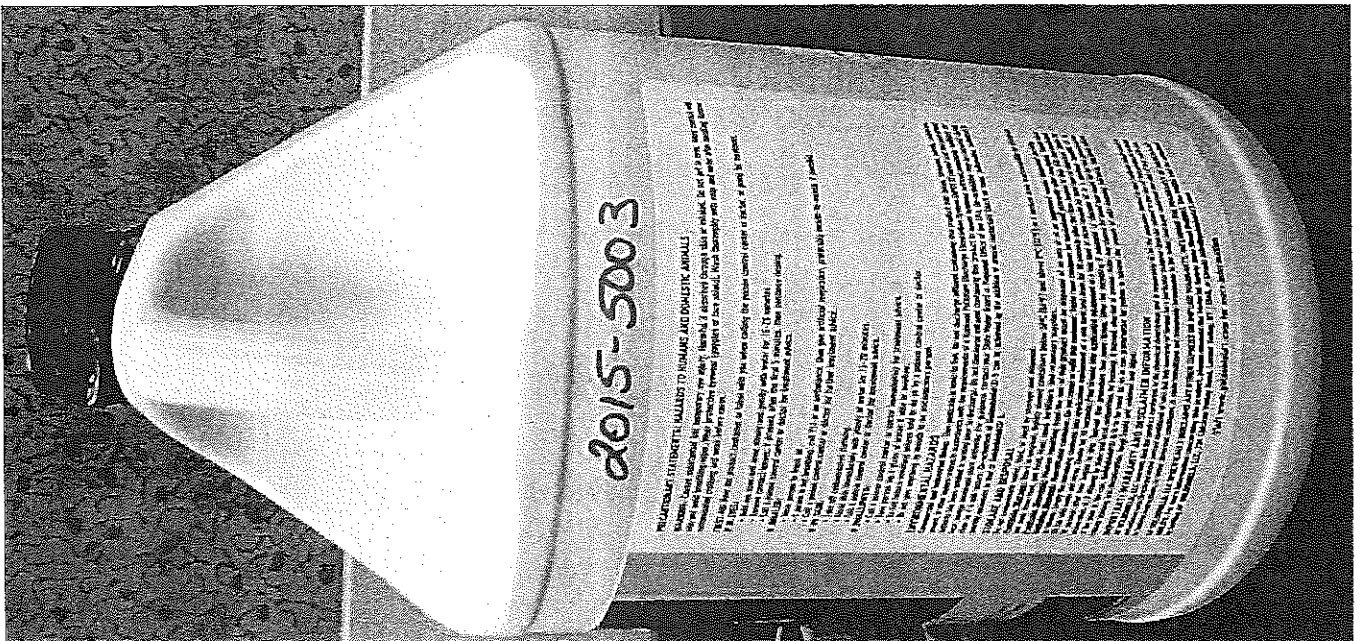
IF ON SKIN:

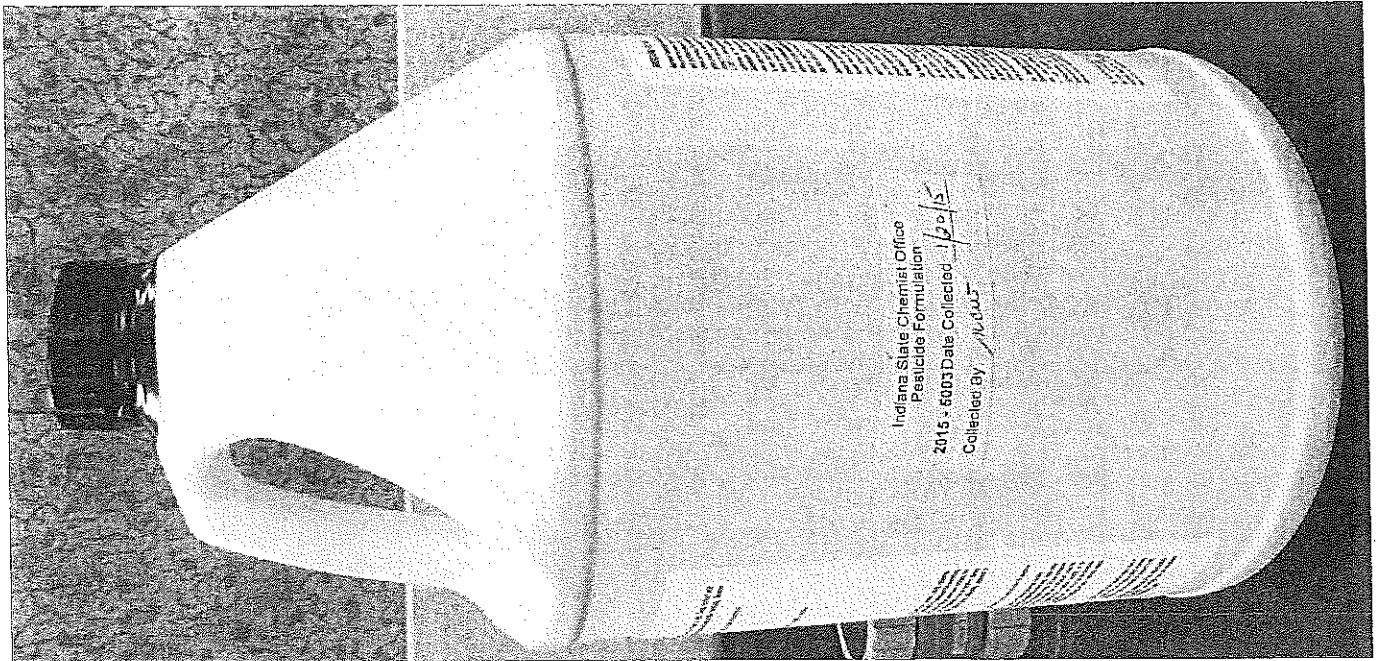
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS
Commercial and Institutional Use Only





Do not give anything unless told to do so by a poison control center or doctor.
 Do not give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

Commercial and Industrial Uses: This pesticide is toxic to fish. 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. De-activation may be required during clean up if a spill occurs. De-activation of Goldshield® 5 can be achieved by the addition of anionic surfactant (such as soap, salthides, salsol) in quantity equivalent to that of Goldshield® 5.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.
Pesticide Storage: Store in original, tightly closed containers below 30°C (85°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food, pet food, feed, seed, fertilizers, and veterinary supplies.
Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Container Disposal: Reusable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Rinse container 3 times. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or dispose of in a sanitary landfill, or if incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Note: Any claims for paint use must be for the preservation of the paint in the can. Goldshield® 5 is to be used as an in can preservative for paints to control the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew) and algae.

IMPORTANT: WARRANTY AND DISCLAIMER INFORMATION

AP GOLDSHIELD, LLC warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in this label when used in accordance with directions under normal conditions of use; but this warranty of fitness for a particular purpose does not extend to the use of the product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes the risk of any such use.

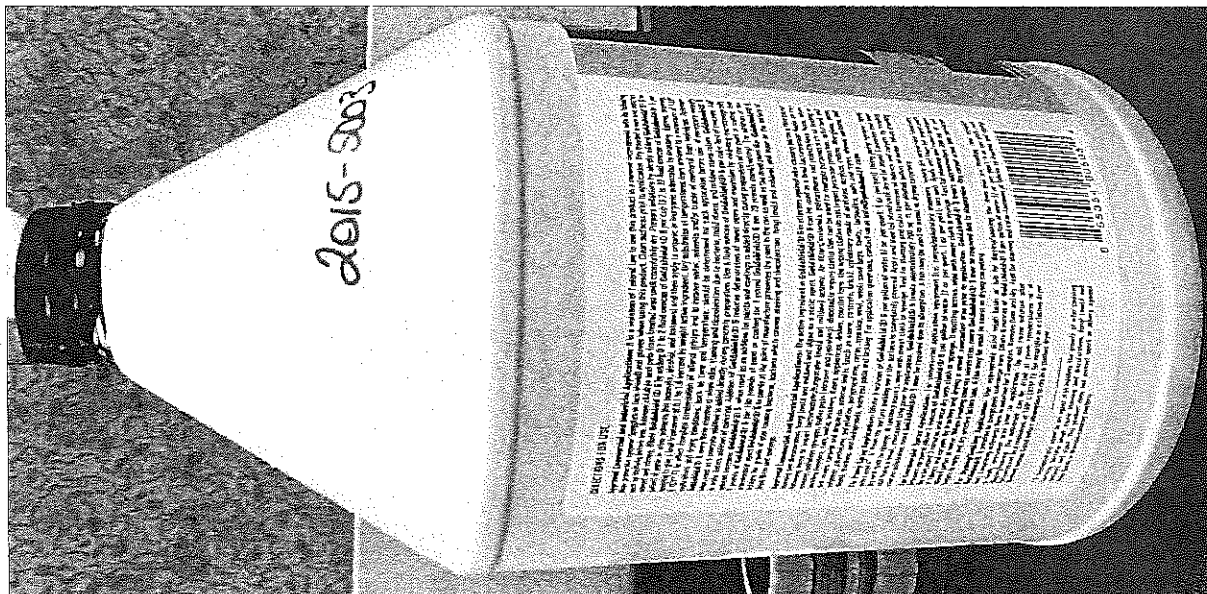
AP GOLDSHIELD, LLC SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY. For more information concerning this product, please consult the Material Safety Data Sheet (MSDS). The MSDS can be obtained by visiting AP GOLDSHIELD, LLC, 734 Chicken Valley Road, Locust Valley, NY 11548, or Email: info@goldshield1.com

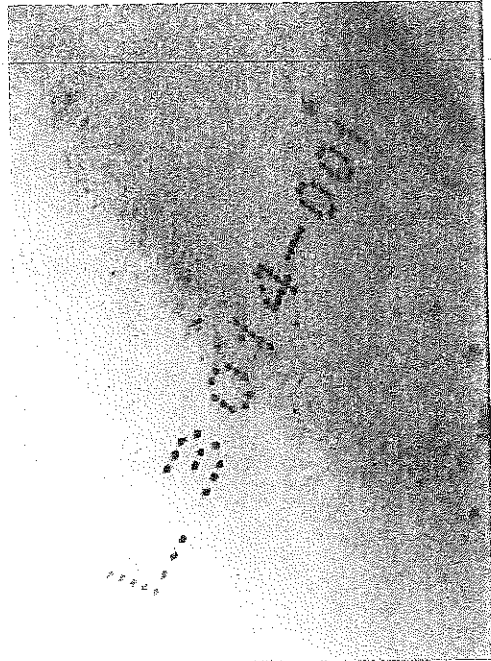
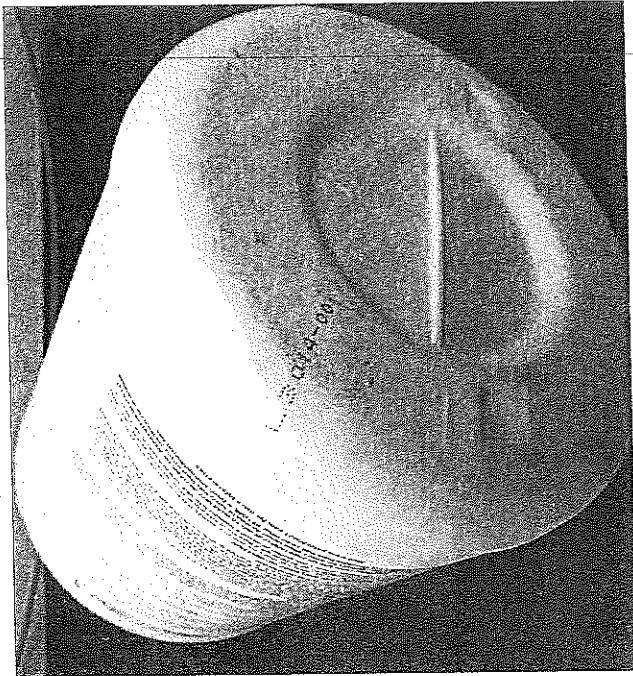
Visit www.goldshield1.com for more information

DIRECTIONS FOR USE

Approved Commercial and Industrial Applications It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Clean surfaces prior to application. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Prepare solutions by simply adding Goldshield® 5 to solvent and stirring. Dilute Goldshield® 5 by adding 0.2 to 2 fluid ounces of Goldshield® 5 per cup (3.2 to 32 fluid ounces of Goldshield® 5 per gallon) of water or other solvents (for example, alcohol, and ketones) and then apply to organic or inorganic substrates by brushing, dipping, soaking, spraying to give a final treatment of 0.1 to 1.0 percent by weight active ingredient. Dry substrates at temperatures from ambient to a maximum of 149°C (321°F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum applications and drying conditions, such as time and temperature, should be determined for each application before use. If necessary reapply Goldshield® 5 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Goldshield® 5 when used as a concrete additive is added directly during concrete preparation. Use 6 fluid ounces of Goldshield® 5 per cubic feet of concrete. Add to water before addition of concrete. Addition of Goldshield® 5 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically reduced corrosion. Goldshield® 5 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of Goldshield® 5 per 100 pounds of paint or coating (or 1 pound Goldshield® 5 per 20 pounds paint/coating). The addition of the antimicrobial agent Goldshield® 5 to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. Goldshield® 5 inhibits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

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... coatings. ... bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae ...

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For Pump Spray Application: Dilute 8 ounces of Goldshield® 5 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4" - 6" from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Goldshield® 5 treats approximately 200 sq. ft. per diluted gallon of water. When treating coarser substrates, more Goldshield® 5 may be required due to absorption. A fan may be used to assist in drying carpeting.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, pressure sprayers) dilute 8 ounces of Goldshield® 5 per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Goldshield® 5 treats approximately 200 sq. ft. per diluted gallon of water. When treating coarser substrates, more Goldshield® 5 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpeting.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Goldshield® 5 solution to completely submerge item. Dilute 8 ounces of Goldshield® 5 per gallon of water (2 oz. per quart; 1 oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking. The substrate can be dried at room temperatures or at temperatures to a maximum of 160° C (320° F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer.

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