

# ZOONO®

## Z-71 MICROBE SHIELD

A Silane Quaternary Ammonium Salt

Antimicrobial Surface Protectant\*

**ACTIVE INGREDIENT:** 3 (trihydroxysilyl) propyl dimethyl octadecyl ammonium chloride.....0.84%  
**OTHER INGREDIENTS:** ..... 99.16%  
**TOTAL:** .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

Net Contents: 1 Gallon (128 Fl Oz)

**PRODUCT FEATURES AND BENEFITS\*:**  
Zoono Z-71 Microbe Shield imparts durable biostatic activity to the surface of a wide variety of substrates.

- Zoono Z-71 Microbe Shield is effective against mold, mildew and algae as a static agent.
- Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of Zoono Z-71 Microbe Shield.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.
- Cleans and protects surfaces from odor causing bacteria and discoloration or staining.
- Antimicrobial surface protectant against odor causing bacteria.
- Antimicrobial surface protectant against discoloration or staining.

EPA REG No: 83129-1-96039  
EPA EST No: 66428-SC-1

Manufactured For:  
ZOONO GROUP LIMITED  
Unit 3, 24 Bishop Dunn Place, Botany South,  
Auckland 2013,  
NEW ZEALAND  
+62 21 659977

**ENVIRONMENTAL HAZARDS:**

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 Zoono Z-71 Microbe Shield can be achieved by the addition of an anionic surfactant or detergent (such as soap, sulfones, or sulphates) in quantity equivalent to that of the active ingredient.

**DIRECTIONS FOR USE**  
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

FOR INDUSTRIAL / INSTITUTIONAL / RESIDENTIAL / COMMERCIAL USE

**APPROVED USES:** Zoono Z-71 Microbe Shield is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Zoono Z-71 Microbe Shield can be used as a final bacteriostatic finish on the following items to impart bacteriostatic / fungistatic (mold and mildew) activity:

- Carpet, Draperies, Upholstery, Furniture, Book Covers and Pictures
- Interior Non-Food Contact Hard Surfaces, Floors and Floor Coverings, Walls and Wall Coverings, Ceramic Tile, Concrete, Chrome, Stainless Steel, Sealed Fiberglass, Vinyl, Porcelain, Wood and Glass Fixtures, Marble and Aluminum.

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.

Zoono Z-71 Microbe Shield is to be applied to organic and inorganic surfaces as supplied by brushing, dipping, padding, soaking, or spraying until adequately wet, or applying by foaming techniques. After applying treatment, the surface should be allowed to dry 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.

If necessary, reapply Zoono Z-71 Microbe Shield every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains returns.

**For Pump Spray Application:** Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry. Reapply another coat, if desired. If spotting occurs especially on glass or mirrored surfaces, wipe with lint free cloth, moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. One gallon of Zoono Z-71 Microbe Shield treats approx. 200 – 800 square feet. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption.

**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 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area, prior to application. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use.

**For Dipping/ Soaking Application:** Use appropriate sized washbasins or tub for dipping/soaking the item you are treating. Use enough Zoono Z-71 Microbe Shield solution to completely submerge item. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and colorfastness 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 temperature or at temperatures to a maximum of 160°C (320°F).

For each application, determine optimum application and drying conditions, such as time and temperature, before use. If desired, reapply Zoono Z-71 Microbe Shield if odor, staining and discoloration due to bacteria, mold or mildew, occur.

**STORAGE AND DISPOSAL:**  
Do not contaminate water, food or feed by storage and disposal.

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), Zoono Z-71 Microbe Shield has a minimum shelf life of 12 months from date of shipment.

**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 as follows: Fill container ¼ full with water and recap. Shake 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

**NOTICE:** Zoono Group Limited warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated in the labeling 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 written instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

**SDS INFORMATION:** READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABEL FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET CAN BE OBTAINED BY WRITING TO ZOONO LIMITED

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# ZOONO®

## Z-71 MICROBE SHIELD

A Silane Quaternary Ammonium Salt

Antimicrobial Surface Protectant\*

<b>ACTIVE INGREDIENT:</b> 3 (trihydroxysilyl) propyldimethyl octadecyl ammonium chloride.....0.84%
<b>OTHER INGREDIENTS:</b> ..... 99.16%
<b>TOTAL:</b> .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

Net Contents: 5 Gallons

**PRODUCT FEATURES AND BENEFITS\*:**  
Zoono Z-71 Microbe Shield imparts durable biostatic activity to the surface of a wide variety of substrates.

- Zoono Z-71 Microbe Shield is effective against mold, mildew and algae as a static agent.
- Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of Zoono Z-71 Microbe Shield.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.
- Cleans and protects surfaces from odor causing bacteria and discoloration or staining.
- Antimicrobial surface protectant against odor causing bacteria.
- Antimicrobial surface protectant against discoloration or staining.

EPA REG No: 83129-1-96039  
EPA EST No: 66428-SC-1

Manufactured For:  
ZOONO GROUP LIMITED  
Unit 3, 24 Bishop Dunn Place, Botany South,  
Auckland 2013,  
NEW ZEALAND  
+62 21 659977

### ENVIRONMENTAL HAZARDS:

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De-activation may be required during clean up if a spill occurs. De-activation of Zoono Z-71 Microbe Shield can be achieved by the addition of an anionic surfactant or detergent (such as soap, sulfones, or sulphates) in quantity equivalent to that of the active ingredient.

**DIRECTIONS FOR USE**  
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

FOR INDUSTRIAL / INSTITUTIONAL / RESIDENTIAL / COMMERCIAL USE

**APPROVED USES:** Zoono Z-71 Microbe Shield is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Zoono Z-71 Microbe Shield can be used as a final bacteriostatic finish on the following items to impart bacteriostatic / fungistatic (mold and mildew) activity:

- Carpet, Draperies, Upholstery, Furniture, Book Covers and Pictures
- Interior Non-Food Contact Hard Surfaces, Floors and Floor Coverings, Walls and Wall Coverings, Ceramic Tile, Concrete, Chrome, Stainless Steel, Sealed Fiberglass, Vinyl, Porcelain, Wood and Glass Fixtures, Marble and Aluminum.

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.

Zoono Z-71 Microbe Shield is to be applied to organic and inorganic surfaces as supplied by brushing, dipping, padding, soaking, or spraying until adequately wet, or applying by foaming techniques. After applying treatment, the surface should be allowed to dry 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.

If necessary, reapply Zoono Z-71 Microbe Shield every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains returns.

**For Pump Spray Application:** Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry. Reapply another coat, if desired. If spotting occurs especially on glass or mirrored surfaces, wipe with lint free cloth, moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. One gallon of Zoono Z-71 Microbe Shield treats approx. 200 – 800 square feet. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption.

**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 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area, prior to application. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use.

**For Dipping/ Soaking Application:** Use appropriate sized washbasins or tub for dipping/soaking the item you are treating. Use enough Zoono Z-71 Microbe Shield solution to completely submerge item. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and colorfastness 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 temperature or at temperatures to a maximum of 160°C (320°F).

For each application, determine optimum application and drying conditions, such as time and temperature, before use. If desired, reapply Zoono Z-71 Microbe Shield if odor, staining and discoloration due to bacteria, mold or mildew, occur.

### STORAGE AND DISPOSAL:

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

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), Zoono Z-71 Microbe Shield has a minimum shelf life of 12 months from date of shipment.

**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 as follows: Fill container ¼ full with water and recap. Shake 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

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SDS INFORMATION: READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABEL FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET CAN BE OBTAINED BY WRITING TO ZOONO LIMITED

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# ZOONO®

## Z-71 MICROBE SHIELD

A Silane Quaternary Ammonium Salt

Antimicrobial Surface Protectant\*

<b>ACTIVE INGREDIENT:</b> 3 (trihydroxysilyl) propyldimethyl octadecyl ammonium chloride.....0.84%
<b>OTHER INGREDIENTS:</b> ..... 99.16%
<b>TOTAL:</b> .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

Net Contents: 55 Gallons

**PRODUCT FEATURES AND BENEFITS\*:**  
Zoono Z-71 Microbe Shield imparts durable biostatic activity to the surface of a wide variety of substrates.

- Zoono Z-71 Microbe Shield is effective against mold, mildew and algae as a static agent.
- Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of Zoono Z-71 Microbe Shield.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.
- Cleans and protects surfaces from odor causing bacteria and discoloration or staining.
- Antimicrobial surface protectant against odor causing bacteria.
- Antimicrobial surface protectant against discoloration or staining.

EPA REG No: 83129-1-96039  
EPA EST No: 66428-SC-1

Manufactured For:  
ZOONO GROUP LIMITED  
Unit 3, 24 Bishop Dunn Place, Botany South,  
Auckland 2013,  
NEW ZEALAND  
+62 21 659977

**ENVIRONMENTAL HAZARDS:**

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.

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**DIRECTIONS FOR USE**  
IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

FOR INDUSTRIAL / INSTITUTIONAL / RESIDENTIAL / COMMERCIAL USE

**APPROVED USES:** Zoono Z-71 Microbe Shield is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Zoono Z-71 Microbe Shield can be used as a final bacteriostatic finish on the following items to impart bacteriostatic / fungistatic (mold and mildew) activity:

- Carpet, Draperies, Upholstery, Furniture, Book Covers and Pictures
- Interior Non-Food Contact Hard Surfaces, Floors and Floor Coverings, Walls and Wall Coverings, Ceramic Tile, Concrete, Chrome, Stainless Steel, Sealed Fiberglass, Vinyl, Porcelain, Wood and Glass Fixtures, Marble and Aluminum.

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.

Zoono Z-71 Microbe Shield is to be applied to organic and inorganic surfaces as supplied by brushing, dipping, padding, soaking, or spraying until adequately wet, or applying by foaming techniques. After applying treatment, the surface should be allowed to dry 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.

If necessary, reapply Zoono Z-71 Microbe Shield every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains returns.

**For Pump Spray Application:** Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry. Reapply another coat, if desired. If spotting occurs especially on glass or mirrored surfaces, wipe with lint free cloth, moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. One gallon of Zoono Z-71 Microbe Shield treats approx. 200 – 800 square feet. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption.

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**For Dipping/ Soaking Application:** Use appropriate sized washbasins or tub for dipping/soaking the item you are treating. Use enough Zoono Z-71 Microbe Shield solution to completely submerge item. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and colorfastness 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 temperature or at temperatures to a maximum of 160°C (320°F).

For each application, determine optimum application and drying conditions, such as time and temperature, before use. If desired, reapply Zoono Z-71 Microbe Shield if odor, staining and discoloration due to bacteria, mold or mildew, occur.

**STORAGE AND DISPOSAL:**  
Do not contaminate water, food or feed by storage and disposal.

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), Zoono Z-71 Microbe Shield has a minimum shelf life of 12 months from date of shipment.

**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 as follows: Fill container ¼ full with water and recap. Shake 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

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# ZOONO®

## Z-71 MICROBE SHIELD

A Silane Quaternary Ammonium Salt

Antimicrobial Surface Protectant\*

<b>ACTIVE INGREDIENT:</b> 3 (trihydroxysilyl) propyldimethyl octadecyl ammonium chloride.....0.84%
<b>OTHER INGREDIENTS:</b> ..... 99.16%
<b>TOTAL:</b> .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

Net Contents: 275 Gallons

**PRODUCT FEATURES AND BENEFITS\*:**  
Zoono Z-71 Microbe Shield imparts durable biostatic activity to the surface of a wide variety of substrates.

- Zoono Z-71 Microbe Shield is effective against mold, mildew and algae as a static agent.
- Increased efficiency – through proper application, durable bacteriostatic, fungistatic and algistatic surfaces can be attained with a minimum amount of Zoono Z-71 Microbe Shield.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.
- Cleans and protects surfaces from odor causing bacteria and discoloration or staining.
- Antimicrobial surface protectant against odor causing bacteria.
- Antimicrobial surface protectant against discoloration or staining.

EPA REG No: 83129-1-96039  
EPA EST No: 66428-SC-1

Manufactured For:  
ZOONO GROUP LIMITED  
Unit 3, 24 Bishop Dunn Place, Botany South,  
Auckland 2013,  
NEW ZEALAND  
+62 21 659977

**ENVIRONMENTAL HAZARDS:**

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**DIRECTIONS FOR USE**  
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FOR INDUSTRIAL / INSTITUTIONAL / RESIDENTIAL / COMMERCIAL USE

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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.

Zoono Z-71 Microbe Shield is to be applied to organic and inorganic surfaces as supplied by brushing, dipping, padding, soaking, or spraying until adequately wet, or applying by foaming techniques. After applying treatment, the surface should be allowed to dry 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.

If necessary, reapply Zoono Z-71 Microbe Shield every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains returns.

**For Pump Spray Application:** Using pump sprayer, spray entire area 4-6 inches from the surface making sure the surface is completely covered. Apply and then let stand until dry. Reapply another coat, if desired. If spotting occurs especially on glass or mirrored surfaces, wipe with lint free cloth, moist cloth or sponge. Test for staining and colorfastness of fabrics and carpets by treating and drying a small, concealed area prior to application. One gallon of Zoono Z-71 Microbe Shield treats approx. 200 – 800 square feet. When treating coarser substrates, more Zoono Z-71 Microbe Shield may be required due to absorption.

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For each application, determine optimum application and drying conditions, such as time and temperature, before use. If desired, reapply Zoono Z-71 Microbe Shield if odor, staining and discoloration due to bacteria, mold or mildew, occur.

**STORAGE AND DISPOSAL:**  
Do not contaminate water, food or feed by storage and disposal.

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use. Keep tightly closed until ready to use. Reclose tightly after each use. When stored in original, unopened containers at or below 25°C (77°F), Zoono Z-71 Microbe Shield has a minimum shelf life of 12 months from date of shipment.

**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 as follows: Fill container ¼ full with water and recap. Shake 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Offer for recycling if available or dispose of in a sanitary landfill or by incineration.

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