



# PROTECT 'N SHIELD ANTIMICROBIAL

A SILANE QUATERNARY AMMONIUM SALT

## STORAGE AND DISPOSAL:

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

### For household/residential use packages:

Use by: \_\_\_\_\_

**Storage and Disposal:** 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), Protect 'N' Shield has a minimum shelf life of 12 months from date of shipment. Nonrefillable container. Do not reuse or refill this container. Wrap container and put in trash or offer for recycling if available.

### For industrial and commercial use packages:

#### Small Packages: (5 gal or less)

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use and away from food or feed. 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), Protect 'N' Shield has a minimum shelf life of 12 months from date of shipment.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container 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 the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### PAIS, DRUMS AND IBC's:

**STORAGE:** Store in original, tightly closed container in an area inaccessible to children or persons unfamiliar with its use and away from food or feed. 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), Protect 'N' Shield has a minimum shelf life of 12 months from date of shipment.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** REFILLABLE CONTAINER. Refill this container with 3-(trihydroxysilyl) propyldimethyloctadecyl ammonium chloride only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or dump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**NOTICE:** Tri-Chem 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. TRI-CHEM SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTY OF MERCHANTABILITY.  
ESL032213N REV032513

## ACTIVE INGREDIENTS:

3-(trihydroxysilyl) Propyldimethyloctadecyl Ammonium Chloride .....	3.30%
<b>OTHER INGREDIENTS:</b> .....	<b>96.70%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

## PRODUCT FEATURES AND BENEFITS

Protect 'N Shield Antimicrobial imparts durable biostatic activity to the surface of a wide variety of substrates. Protect 'N Shield Antimicrobial 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 Protect 'N Shield Antimicrobial.
- Provides freshness and combats deterioration and discoloration caused by bacteria, fungi and algae.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

Have the product container or label with you when calling a 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.

MADE IN USA

EPA REG. No. 37256-1 EPA EST. No. 11515-MI-1

Sold by:

  
 Department of Agriculture  
 STATE OF HAWAII  
**LICENSED**  
**Tri-Chem Corporation**  
**PO Box 71550**  
**Madison Heights, MI - 48071-0550**  
**(800) 456-6255**

PERIOD 2014-2016 LIC. NO. **8821.1**

LOT NO. \_\_\_\_\_

NET CONTENTS: \_\_\_\_\_ **LICENSED**

PERIOD 2011-2013 LIC. NO.

## CONSUMER USE PRODUCTS FOR INDOOR USE ONLY

### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS.

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its label. Wear safety glasses and rubber 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.

#### WASHABLE LINENS, DRAPERIES, FABRIC, BEDDING & APPAREL:

**Dipping/Soaking:** Use a wash tub or machine for soaking the items you are treating. Always treat only clean items and use only fresh rinse water.

**Wash Tub:** Use washbasin or tub big enough to completely soak the item you are treating. Add 1 ounce of Protect 'N Shield Antimicrobial to sufficient water to soak 4 lbs of fabric, 2 ounces for 8 lbs. Completely submerge items in solution for 3 minutes. Remove items 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 temperature or in a clothes dryer at the appropriate setting for the items.

**Washing Machine:** Clean items first. Then run only rinse cycle. Add 2 ounces of Protect 'N Shield Antimicrobial for small, 3 ounces for medium or 4 ounces for large load setting on machine. Run the full rinse cycle to treat the fabrics, then allow to dry overnight or use a dryer under the appropriate heat setting for the fabrics being treated. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application.

**Spray:** Clean items prior to application. Dilute one part of Protect 'N Shield Antimicrobial to three parts water and mix or shake well. Using trigger pump sprayer or pressure sprayer, spray entire surface area 4"-6" from the surface making sure the surface is completely covered. Let stand until dry or dry under the appropriate heat setting for the fabrics being treated. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. If necessary, reapply every three months or when odor, staining, and discoloration due to bacteria, mold stains, or mildew stains return.

#### CARPET AND UPHOLSTERY/FURNITURE:

**Spray:** Always apply only to clean surfaces. Dilute one part of Protect 'N Shield Antimicrobial to three parts of water and mix or shake well. Apply to carpet and furniture using a trigger pump sprayer or a pressure sprayer. Spray entire surface from 4-6 inches distance until completely covered. The amount needed for treatment will depend on the coarseness and absorbency of the material being treated. Allow to dry thoroughly before reentry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. If necessary, reapply every three months or when odor, staining, and discoloration due to bacteria, mold stains, or mildew stains return.

**FOR BATHROOM AND NON-FOOD CONTACT BUILDING SURFACES** (including tubs and showers, tiles, vanity tops, shower curtains, grout, sinks, washable walls, wall paper, floors, window sills, concrete or stone surfaces and garbage cans).

**Spray:** Always apply only to clean surfaces. Dilute one part of Protect 'N Shield Antimicrobial to three parts of water and mix or shake well. Apply to carpet and furniture using a trigger pump sprayer or a pressure sprayer. Spray entire surface from 4-6 inches distance until completely covered. Allow to dry thoroughly before use. If spotting occurs, wipe with moist cloth or sponge.

**GROUT AND CEMENT MIX ADDITIVE:** For use as a grout or cement additive, add Protect 'N Shield Antimicrobial directly to the dry mix during the grout or cement preparation. Use 25 fluid ounces of Protect 'N Shield per 5 pound of dry grout mixture. Follow directions for grout or cement, using Protect 'N Shield as part of the added water. Additional Protect 'N Shield inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae on the surface of the cured grout.

#### FILTERS AND FILTER MATERIAL (Aquarium filters, vacuum cleaner filters and air filters):

**Spray:** Always apply only to clean surfaces. When treating filters, remove filter from unit. Dilute one part of the Protect 'N Shield Antimicrobial to three parts of water and mix or shake well. Apply to surface using a trigger pump sprayer or a pressure sprayer. Spray entire surface from 4-6 inches distance until completely covered. Allow to dry thoroughly before use.