



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

**EPA Reg. Number:**

70927-7

**Date of Issuance:**

03/17/2023

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration  
 (under FIFRA, as amended)

**Term of Issuance:**

Unconditional

**Name of Pesticide Product:**

TB-002

**Name and Address of Registrant (include ZIP Code):**

Noble Fiber Technologies, LLC  
 300 Palm Street  
 Scranton, PA 18505  
 Electronic Transmittal: Abigail.wacek@tsgconsulting.com

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

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

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

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

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 70927-7."

**Signature of Approving Official:**

Marcel Howard, Product Manager 34  
 Regulatory Management Branch II  
 Antimicrobials Division (7510M)  
 Office of Pesticide Programs

**Date:**

3/17/23

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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

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

- Basic CSF dated 12/10/2021
- Alternate Formulation #1 dated 12/10/2021

If you have any questions, please contact Lorena Rivas, via email at [rivas.lorena@epa.gov](mailto:rivas.lorena@epa.gov)

Enclosed: Human Health and Ecological Review

## TB-002

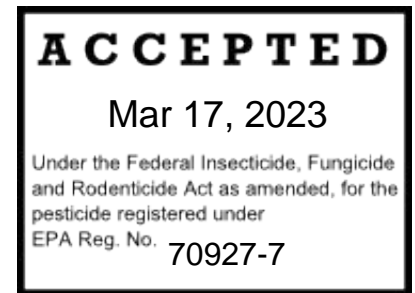
[TB-002] [This product] is an antimicrobial material preservative formula for commercial and industrial use in the manufacture of various intermediate and finished products. [TB-002] [This product] can be incorporated into various [formulations] [materials] [articles] during various stages of the manufacturing process to preserve the characteristics of intermediate products and finished goods.

[TB-002] [This product] may be used in the formulation or manufacturing of other FIFRA EPA-registered antimicrobial products for material preservation. [TB-002] [This product] may be used as a source of the active ingredient citric acid in the formulation of EPA-registered antimicrobial products for material preservation of fibers and textiles, fiber and textile finishes, coatings and paints, adhesives and sealants, plastics, and foam products if approval has been obtained for such use(s) from the EPA-registered manufacturer of TB-002. Formulators or manufacturers that have obtained TB-002 EPA-registrant approval, are responsible for EPA registration and for compliance with other FIFRA requirements. See User Manual(s) for additional information on acceptable use sites for the formulation or manufacturing of other FIFRA EPA-registered antimicrobial products for material preservation.

This product may be used to formulate pesticide products for specific use(s) not identified as material preservation if the manufacturer or formulator has complied with EPA data requirements, registration, and other FIFRA requirements.

**Active Ingredient:**  
 Citric acid.....50%  
**Other Ingredients**.....50%  
 Total.....100%

**KEEP OUT OF REACH OF CHILDREN  
 DANGER/PELIGRO**



**See back/side panel for additional precautionary statements**

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you do not understand the label, find someone to explain it to you in detail.)**

*[Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label.]*

<b>FIRST AID</b>	
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticides Information Center (NPIC) at 1-800-858-7378, 8:00 am – 12:00 pm Pacific Time, Monday – Friday; email: [npic@ace.orst.edu](mailto:npic@ace.orst.edu); or website: <http://npic.orst.edu/>. You may also contact the Poison Control Center at 1-800-222-1222 for emergency medical treatment information.

**EPA Reg. No:** 70927-T  
**EPA Est. No.:** XXXXX-XX-XXX

**Net Contents:**

**Manufactured For:**  
Noble Fiber Technologies, LLC  
300 Palm St.  
Scranton, PA 18505

### **PRECAUTIONARY STATEMENTS**

#### **Hazards to Humans and Domestic Animals**

**DANGER. Corrosive.** Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear such as goggles or face shield. Wear Long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

**STORAGE:** Store away from children. Reclose cap tightly after use. Isolate from strong oxidants. Do not store above 49 C/120 F. To avoid deterioration, store containers upright in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. In case of spill, flood areas with large quantities of water.

**PESTICIDE DISPOSAL:** Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill container. Offer for recycling if available or reconditioning if appropriate or place in trash or in a sanitary landfill.

#### **Directions for Use**

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

#### **Blending and Formulating Instructions for the Listed Materials:**

Compatibility of [TB-002] [this product] with a particular application should always be assessed before use. Identified use sites and the range of concentrations on which trials can be based are outlined elsewhere on this label. Performance of [TB-002] [this product] can vary for [formulations] [materials] [articles] and it is essential when first using [TB-002] [this product] to test for compatibility and performance before deciding on an optimum concentration. Independent testing is always required to validate intermediate and finished product efficacy.

Specific formulation or manufacturing directions for a given application can be provided through consultation with the manufacturer or distributor of [TB-002] [this product].

Homogeneous distribution of [TB-002] [this product] [within formulations] [and] [on or within [materials] [and] [articles]] is important. [TB-002] [This product] can be added at various stages in the manufacturing and formulation process. [It is recommended to add [TB-002] [this product] at the end of the formulation process.] [It is recommended to [add] [incorporate] [apply] [TB-002] [this product] at the end of the [material] [or] [article] manufacturing process.]

Pesticide products and manufactured products incorporating [TB-002] [this product] may not make public health claims relating to antimicrobial activity without first obtaining an EPA registration for the manufactured product which permits such claims. When [TB-002] [this product] is incorporated into treated articles, it is not permissible to make claims that the treated article will protect the user against food borne or disease-causing bacteria, viruses, germs, or other disease-causing microorganisms.

[TB-002] [This product] is not currently approved for food contact, food packaging, or human drinking water applications.

### Applications and Use:

[TB-002] [This product] may be incorporated into the following [formulations] [,] [materials] [,] [and] [articles] at the specified Maximum Concentrations (MC) on a dry weight basis for finished products, or on a weight-by-weight basis for liquid formulations such as Textile Finishes, Coatings and Paints, and Adhesives and Sealants.

<b>Fibers and Textiles Applications:</b>	<b>Finished Products - MC: 5.0%</b>
Natural and synthetic fibers and textiles: See User Manual(s) for additional information.	
Consumer apparel (tops, bottoms, dresswear, outerwear, swimwear, childrens), Consumer sleepwear & undergarments (sleepwear, undergarments, shapewear, hosiery), Consumer footwear & accessories (footwear, headgear, neckwear, handwear, accessories), Consumer & hospitality bedding & homegoods (bedding, fabric & fill, towels, linen), Sportswear, gear, & accessories (sporting apparel, sports uniforms, sports headgear, sports equipment, gear, and accessories, outdoor apparel, equipment, gear, and accessories), General textile-based accessories & applications (fabric & articles, cloths, electronics, cleaning), Pet products (dry goods, articles), Furniture, wall hangings, window treatments, and flooring, Outdoor products (outdoor covers, marine), Automotive & aerospace applications, Industrial, commercial, & consumer applications (materials, filtration, evaporation and condensation, heat exchange, insulation), Industrial, institutional, military, law enforcement apparel & accessories (uniforms, accessories), and Hospital & healthcare:* (healthcare apparel, fabrics, devices, dry goods.	
<b>Fiber and Textile Finishes Applications:</b>	<b>Formulations – MC: 50.0%</b>
Natural and synthetic fibers and textiles: See User Manual(s) for additional information.	
Aqueous-based fiber and textile finishes in concentrated, encapsulated, and final formulations for natural and synthetic fibers and textiles used according to the applications, use sites, and finished products identified under fibers and textiles.	
<b>Coatings and Paints Applications:</b>	<b>Formulations – MC: 50.0%</b> <b>Finished Products - MC: 5.0%</b>
Aqueous-based coatings and paints in concentrated, encapsulated, and final formulations.	
Coatings and paints used on or in the manufacture of: Automotive, transportation, and aerospace products, Appliances, Architectural products, Barrier materials, Building products, Collection, material handling, and storage equipment, Commercial, industrial, institutional, and military equipment, Composite materials, Computers and electronics, Filtration and insulation materials, Furniture, wall and ceiling hangings and covers, window treatments, flooring products, Household, commercial, hospitality, institutional and healthcare products, Laminates and film materials, Metal parts, Outdoor products, Packaging, containers and equipment, Paper products, Pet products, Sports and recreational products, and Tapes and tiles.,	

<b>Adhesives and Sealants Applications:</b>	<b>Formulations – MC: 50.0%</b> <b>Finished Products - MC: 5.0%</b>
<p>Aqueous-based adhesives or sealants used in concentrated, encapsulated, and final formulations.</p> <p>Adhesives and sealants used on or in the manufacture of: Automotive, transportation, and aerospace products, Appliances, Architectural products, Barrier materials, Building products, Collection, material handling, and storage equipment, Commercial, industrial, institutional, and military equipment, Composite materials, parts, and components, Computers and electronics, Filtration and insulation materials, Furniture, wall and ceiling hangings and covers, window treatments, flooring products, Household, commercial, hospitality, institutional and healthcare products, Laminates and film materials, Metal parts, Outdoor products, Packaging, containers and equipment, Paper products, Pet products, Sports and recreational products, and Tapes and tiles.</p>	
<b>Plastics Applications:</b>	<b>Finished Products - MC: 5.0%</b>
<p>Polymers: polyester, polyamide, polypropylene, polyethylene, polysiloxane, polyethylene copolymer, polyvinyl alcohol, epoxy resin, phenol resin, polycarbonate, cellulose acetate, polystyrene, polyurethane, acrylic resin, methyl methacrylate, acrylonitrile butadiene styrene copolymer, etc.</p> <p>Used on or with plastics used for the manufacture of: Automotive, transportation, and aerospace products, Appliances, Architectural products, Building products, Collection, material handling, and storage equipment, Commercial, industrial, institutional, and military equipment, Composite materials, Computers and electronics, Furniture, wall and ceiling hangings and covers, window treatments, flooring materials, products, parts, components, and accessories, Household, commercial, hospitality, institutional and healthcare products, Outdoor products, Packaging, containers and equipment, Pet products, and Sports and recreational products.</p>	
<b>Foam Applications:</b>	<b>Finished Products - MC: 5.0%</b>
<p>Polymers: biodegradable polymers, cellulose, ethafoam, evlon, latex rubber, melamine, neoprene, neoprene-vinyl, polyester polyol, polyether, polyethylene, polystyrene, polyurethane, PVC, viscoelastic, volara, etc. Foam in pre-set formulations, spray and finished formats.</p> <p>Foam used in: Automotive, transportation, and aerospace products, Appliances, Architectural products, Barrier materials, Building products, Collection, material handling, and storage equipment, Commercial, industrial, institutional, and military equipment, Composite materials, Computers and electronics, Filtration and insulation materials, Furniture, wall and ceiling hangings and covers, window treatments, flooring products, Household, commercial, hospitality, institutional and healthcare products, Laminates and film materials, Outdoor products, Packaging, containers and equipment, Pet products, Sports and recreational products, and Tapes and tiles.</p>	

*\*These products are regulated by the EPA and are included solely as article preservatives. Any public health claims related to the TB-002 product would be expressly limited to products regulated by the FDA and do not apply to these products regulated by the EPA.*

See User Manual(s) for additional information.

### **Manufacturing Use Instructions**

For the formulation of other FIFRA EPA-registered antimicrobial products for material preservation, compatibility of TB-002 with a particular application should be assessed before use. Identified use sites and the range of concentrations on which trials can be based are outlined elsewhere on this label. Performance of TB-002 can vary for formulations and it is essential when first using TB-002 to test for end-use compatibility and performance before deciding on an optimum concentration. Independent testing is always required to validate the formulation for product efficacy.

Homogeneous distribution of TB-002 within EPA-registered formulations is important. TB-002 can be added at various stages in the formulation process; however, it is recommended to add TB-002 at the end of the formulation process to avoid incompatibility with other formula constituents upon initial blending.

**Statement of Warranty and Disclaimer**

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. To the extent consistent with applicable law, neither this warranty nor any other warranty of merchantability nor fitness for a particular purpose expressed or implied extends to the use of this product contrary to labeling instructions or under abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use. It is further suggested that the customer complete independent testing of the finished product to validate efficacy claims. To the extent consistent with applicable law, any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

**[PLACEHOLDER FOR BARCODE]**

## **User Manual 1 – Fibers and textiles: General consumer use sites**

This EPA-registered material preservative for fibers and textiles or fiber and textile finishes may be used for formulation into other EPA-registered antimicrobial material preservatives for use in/on (a) consumer apparel, (b) consumer sleepwear & undergarments, (c) consumer footwear and accessories, (d) consumer & hospitality bedding & homegoods, (e) sportswear, gear, & accessories, and (f) general textile-based accessories & applications use sites as identified below.

This product for fibers and textiles or fiber and textile finishes may be used for natural and synthetic fibers and textiles that include: abaca, acetate, acrylic, alfa, alginate, alpaca, angora, anidex, aramid, azlon, bamboo, beaver hair, broom, camel hair, cashgora, cashmere, chitin, chiengora, chlorofibre, coir, cotton, cupro, elastane, elasterell-p, elastodiene, elastoester, elastolefin, elastomultiester, flax, fluorofibre, glass, guanaco, hemp, henequen, jute, kapok, kenaf, lambswool, lastol, lastrile, llama, lycra, lyocell, maguey, melamine, metallic, modacrylic, modal, mohair, novoloid, nylon, nytril, olefin, other animal hairs, papyrus, pina, polyamide, polybenzimidazol (PBI), polylactic acid (PLA), polycarbamide, polyester, polyethylene, polyethylene terephthalate, polyimide, polylactide, polyphenylene sulphide, polypropylene, polyurethane, polyvinyl chloride, protein, qiviut, rabbit, raffia, rayon, ramie, rubber, saran, silk, sisal, soy silk, spandex, sulfar, sunn, tencel, triacetate, triexta, triviny, vicuna, vinal, vinyla, vinyon, viscose, wool, yak, etc.

- **Consumer apparel (adult, children)**
  - **Tops** (blouses, blazers, pullovers, shirts, sport shirts, suit jackets, sweaters, sweatshirt, T-shirts, tank-tops, vests)
  - **Bottoms** (jeans, leggings, pants, shorts, sweatpants, trousers)
  - **Dresswear** (costumes, dresses, ensembles, gowns, jumpsuits, skirts, suits)
  - **Outerwear** (anoraks, capes, cloaks, coveralls, jackets, overalls, overcoats, ponchos, raincoats, shawls, windbreakers, wraps)
  - **Swimwear** (cover-ups, rash guard, sarong, swimsuits, wetsuit)
  - **Children's** (blanket sleepers, booties, diapers, gowns, jumpers, onesies, playsuits, school uniforms, smock, socks, sunsuits, washsuits)
- **Consumer sleepwear & undergarments (adult, children)**
  - **Sleepwear** (dressing gowns, lingerie, loungewear, negligees, nightdress, nightshirts, pajamas, robes)
  - **Undergarments** (bras, briefs, camisole, leotard, panties, slips, thermal)
  - **Shapewear** (braces, corsets, girdles)
  - **Hosiery** (compression, panty hose, stockings, tights)
- **Consumer footwear and accessories (adult, children)**
  - **Footwear** (athletic, boots, flip-flops, insoles, liners, sandals, shoes, slippers, socks, and component parts)
  - **Headgear** (caps, earmuffs, hats, headbands, liners, and component parts)
  - **Neckwear** (balaclavas, bandanna, bow ties, gaiters, mufflers, neck ties, scarfs, veils)
  - **Handwear** (gloves, mittens, muff, protective, work)
  - **Accessories** (belts, bibs, cuff, garters, handkerchiefs, liners, padding, pockets, suspenders)
- **Consumer & hospitality bedding & homegoods (adult, children)**
  - **Bedding** (blankets, bedspreads, comforters, mattress cover pads, pillowcases, quilts, sheets, skirt)
  - **Fabric & fill** (cording, interlinings, mattress & pillow ticking, quilt & pillow fiber fill)
  - **Towels** (bath, beach, kitchen, washcloths)
  - **Linen** (aprons, cloth napkins, kitchen, tablecloths)
- **Sportswear, gear, & accessories (adult, children)**
  - **Sporting apparel**, (biking, boarding, climbing, cycling, exercise, golf, hiking, paddling, running, tennis, yoga)
  - **Sports uniforms, kits** (baseball, basketball, boxing, fencing, football, gymnastics, hockey, lacrosse, rugby, soccer, softball, track, UFC, volleyball, wrestling)



- **Sports headgear** (caps, helmets, liners, padding)
- **Sports equipment, gear, & accessories** (biking, braces, climbing compression items, equipment bags, hiking, hockey, lacrosse, mats, performance monitoring, protective padding, wraps)
- **Outdoor apparel, equipment, gear, and accessories** (backpacks, blankets, hunting, hydration packs, liners, mattresses, pads, rucksacks, skiing, sleeping bags, tarps, tents)
- **General textile-based accessories & applications**
  - **Fabric & articles** (badges, face masks, handbags, labels, lace, netting, pocketbooks, purses, tapestry)
  - **Cloths** (cleaning, floor, polishing, shop towels, rags, wiping)
  - **Electronics** (covers, mouse pads, shielding, watch bands, wearables)
  - **Cleaning** (brushes, mop yarns, scrubbing pads, sponges, vacuum bags)
  - **Miscellaneous** (bags, book bindings, book covers, cushion pads, hairpieces, sacks)

## **User Manual 2 - Fibers and textiles: Other use sites**

This EPA-registered material preservative product for fibers and textiles or fiber and textile finishes may be used for formulation into other EPA-registered antimicrobial material preservatives for use in/on (a) pet products, (b) furniture, wall hangings, window treatments, flooring, (c) outdoor products, (d) automotive and aerospace applications, (e) industrial, commercial, and consumer applications, (f) industrial, institutional, military, law enforcement apparel & accessories, and for (g) hospital & healthcare use sites as identified below.

This product for fibers and textiles or fiber and fibers and textile finishes may be used for natural and synthetic fibers and textiles that include: abaca, acetate, acrylic, alfa, alginate, alpaca, angora, anidex, aramid, azlon, bamboo, beaver hair, broom, camel hair, cashgora, cashmere, chitin, chiengora, chlorofibre, coir, cotton, cupro, elastane, elasterell-p, elastodiene, elastoester, elastolefin, elastomultiester, flax, fluorofibre, glass, guanaco, hemp, henequen, jute, kapok, kenaf, lambswool, lastol, lastrile, llama, lycra, lyocell, maguey, melamine, metallic, modacrylic, modal, mohair, novoloid, nylon, nyril, olefin, other animal hairs, papyrus, pina, polyamide, 8encel8zimidazole (PBI), polylactic acid (PLA), polycarbamide, polyester, polyethylene, polyethylene terephthalate, polyimide, polylactide, polyphenylene sulphide, polypropylene, polyurethane, polyvinyl chloride, protein, qiviut, rabbit, raffia, rayon, ramie, rubber, saran, silk, sisal, soy silk, spandex, sulfar, sunn, 8encel, triacetate, triexta, trivinyll, vicuna, vinal, vinylla, vinyon, viscose, wool, yak, etc.

- **Pet Products**

- **Dry goods** (beds, blankets, clothing, compression stockings, crate liners, mats, sheets)
- **Articles** (collars, food dishes, furniture, leashes, toys)

- **Furniture, wall hangings, window treatments, flooring**

- **Furniture** (covers, fiber fill, interlinings, ticking, upholstery)
- **Wall hangings** (banners, holographic screens, movie screens, painted canvas, studio back-cloths, signage, stage drapes and curtains, theatrical scenery, wallcovering)
- **Window treatments** (blinds, curtains, drapery, panels, shades)
- **Flooring** (backing, carpeting, mats, padding, pressure sensing, rugs, underlay, tile)

- **Outdoor products**

- **Outdoor** (awnings, banners, flags, furniture, canvas, carpet, ducking, geotextiles, signage, sunblinds, tarpaulins, tents, trampolines, umbrellas, upholstery)
- **Covers** (auto, boat, pool, RV)
- **Marine** (cables, cords, lifebelts, lifejackets, ropes, sails)

- **Automotive and Aerospace Applications**

- **Automotive** (bed liners, carpets, convertible tops, interior liners, shielding, sound proofing, upholstery)
- **Aerospace** (carpets, insulation, interior liners, shielding, sound proofing, upholstery, wallcoverings)

- **Industrial, commercial, and consumer applications**

- **Materials** (belting, braids, cords, equipment shielding, fabrics, packaging, flexible intermediate bulk containers, hose piping and liners, industrial machine belts, papermaking, straining, tubing)
- **Filtration** (filter media, industrial air and dust, masks, respirators, vacuum)
- **Heat exchange** (blankets, dryers, heaters, surfaces)
- **Insulation** (backing, batting, blankets, fill, liners, media)

- **Industrial, institutional, military, law enforcement apparel & accessories**

- **Uniforms** (fire, hospitality, industrial, institutional, law enforcement, military)
- **Accessories** (bags, body armor, caps, helmet liners, personal protective gear, socks)

- **Hospital & Healthcare\***

- **Healthcare apparel** (gowns, lab coats, masks, scrubs, pajamas)
- **Fabrics** (finished, greige, knitted, moisture wicking, nonwoven, woven)
- **Devices** (medical device components & supplies, wheelchairs, compression stockings)
- **Dry Goods** (bedding, braces, cubicle curtains, drapes, privacy curtains, towels, upholstery)

*\*These products are regulated by the EPA and are included solely as article preservatives. Any public health claims related to the TB-002 product would be expressly limited to products regulated by the FDA and do not apply to these products regulated by the EPA.*

## **User Manual 3 – Coatings and Paints, Adhesives and Sealants, Plastics, Foam**

This EPA-registered material preservative product for coatings, paints, adhesives, sealants, plastics, and foams may be used for formulation into EPA-registered antimicrobial material preservative products for use in/on (a) automotive, transportation, and aerospace materials, parts, and accessories, (b) appliances, parts, and accessories, (c) architectural materials, products, parts, and accessories, (d) barrier materials, ® building materials, products, parts, components, and accessories, (f) collection, material handling, and storage equipment parts, components, and accessories, (g) commercial, industrial, institutional, and military equipment, parts, and components, (h) composite materials, parts, and components, (i) computer and electronics parts and accessories, (j) filtration and insulation materials, (k) furniture, wall and ceiling hangings and covers, window treatments, flooring materials, products, parts, components, and accessories, (k) household, commercial, hospitality, institutional and healthcare materials, products, parts, components, and accessories, (l) laminates and film materials, parts, and components, (m) metal parts and components, (n) outdoor products, parts, components, and accessories, (o) packaging, containers and equipment materials parts, components, and accessories, (p) paper products and materials, (q) pet products parts, components, and accessories, (r) sports and recreational equipment, parts, components, and accessories, and (s) tapes and tiles materials, parts, and components use **sites** as identified below.

- **Automotive, transportation, and aerospace materials, parts, and accessories**
  - **Automotive, Transportation** (arm rests, bed liners, cabin filters, children and baby car seats, convertible tops, dashboard, glove compartment, and consoles, door handles, gaskets, headrests, hoses, interior, roof, and trunk liners, mirror components, molded parts, seats, seat covers, seat belts, sensors and soft-surface conductive surfaces, shielding, soundproofing, steering wheel, sun visors, touch parts and controls, upholstery, window seals, wiring insulation)
  - **Aerospace** (arm rests, cabin and cockpit filters, cable and wiring shielding, door and seat handles, floor liners, gaskets, headrests, hoses, HVAC, insulation, interior and ceiling liners, laminates and composites, molded parts, EMI/RFI shielding and anti-static parts, seats, seat covers, seat belts, sensors and soft-surface conductive surfaces, service trolley, shades and handles, soundproofing, storage compartments, and consoles, touch parts and controls, upholstery, window seals, wiring insulation)
- **Appliances, parts, and accessories – nonfood contact surfaces only**
  - Air conditioners, alarm clock, blow dryer, calculator, camera, can opener, ceiling fan, cell phone, clocks, clothes dryer, clothes washer, coffee maker or grinder (exterior surfaces), convection oven (exterior surfaces), cooking range (exterior surfaces), crock pot (exterior surfaces), curling iron, dishwasher, doorbell, electric fan, electric razor, electric toothbrush, fire alarm, flashlight, freezer (exterior surfaces), hair dryer, headphones, humidifier, iron, lamp and shade, microwave oven (exterior surfaces), mixer (exterior surfaces), oven (exterior surfaces), range (exterior surfaces), refrigerator (exterior surfaces), sewing machine, stove, telephone, television, toaster (exterior surfaces), trash compactor, vacuum cleaner, waffle iron (exterior surfaces), walkie-talkie, watch, and water heaters.
- **Architectural materials, products, parts, and accessories**
  - Acoustic, bathroom and kitchen, cabinets, ceilings, cladding and facades, countertops for non-food contact, doors and doorways, elevators, escalators, glazing, moving walkways, environmental barriers, external protective materials, fittings - general and sanitary, floor & stair finishes, lighting, roof and siding, paints and finishes, showers, window materials.
- **Barrier materials**
  - Abrasion, acoustical, anti-static and dissipative, corrosion, electrical, EMI/RFI, gas, vapor, and water permeability, geo-liners, membranes, olfactory, radiation, thermal.
- **Building materials, products, parts, components, and accessories**
  - Adobe, block, block fill, block mesh, bonding agents, brick, ceiling tiles, cement board, ceramic, cinder block, columns and posts, concrete, construction tubes, drywall, floor leveler, framing, foam backer, foundation coatings, glass brick, grouts, gypsum, HVAC, insulation – fiberglass and foam, joint compounds, landscape fabric, masonry additives, moisture barriers, mortar, mosaic, pipe, plaster, plumbing and fixtures, porcelain, roof cement, spackling, stains, stone, stucco, terra cotta.
- **Collection, material handling, and storage equipment parts, components, and accessories**
  - Automated guide vehicles, bins, bucket elevators, cabinets, conveyors and belts, cranes, dock equipment, drawers, flexible intermediate bulk containers, forklift, handrails, hoppers, lift tables,

lockers, mats, order pickers, packing tables, pallets, pallet inverters, pallet jack, racks, ramps, reclaimers, scales, shelves, side loaders, silos, stacking frames, totes, trolleys, trucks – hand, pallet, walkie stackers and platform, wire partitions, work benches.

- **Commercial, industrial, institutional, and military equipment, parts, and components**
  - Coatings, paints, adhesives, sealants, plastics, and foam used for the manufacture, fabrication, protection, and assembly of commercial, industrial, institutional, and military equipment, parts, and components.
- **Composite materials, parts, and components**
  - Coatings, paints, adhesives, sealants, plastics, and foam used for the manufacture, fabrication, protection, and assembly of composite materials, parts, and components.
- **Computer and electronics parts and accessories**
  - Acoustic instruments, case, covers, earphones, fans, filters, flash/zip drives, headsets, insulation, intercoms, joysticks, keyboards, microphones, modems, molded parts, monitors, mouse, mousepads, peripheral cables and connectors, printers, projectors, routers, scanner, shielding, speakers, splitters, stands, tablets, touch surfaces, track balls, video controllers, webcam.
- **Filtration and insulation materials**
  - **Filtration** (air conditioners, air filter for broadband and datacom, air intake, air purifiers, bag filters, cartridge filters, cleanroom, chutes, dust collectors, electronics cooling, EMI/RFI shielding, fan coils, HEPA, HVAC liners, membranes, paper filters, pneumatic, screens, sleeves, skirts, socks, vacuum filters)
  - **Insulation** (apparel, fiberglass batts and blankets, foil-faced rigid, natural fibers - cotton, wool, hemp, and other harvested natural materials, radiant barrier, reflective, rigid panels, spray polymeric or cellulosic, structural insulation panels, wood fiber)
- **Furniture, wall and ceiling hangings and covers, window treatments, flooring materials, products, parts, components, and accessories**
  - **Furniture** (bar, bean bags, beds, benches, bookcase, desk, cabinetry, chairs, changing table, chest of drawers, dining set, drawers, coat rack, couches, entertainment centers, footstools, futons, hatstand, headboards, infant beds, lamps, love seats, mattresses, ottomans, piano, pool tables, recliners, shelving, tables, toddler beds, wardrobe, washstand, winerack, workbench, and other types of furniture materials, products, parts, components, and accessories)
  - **Wall and ceiling hangings and covers** (acoustical panels and papers, antenna systems, banners, decals, decorative, EMI/RFI shielding and wallpapers, energy scavenging and energy storage, holographic screens, movie screens, signage, studio back-cloths, theatrical scenery, wallcoverings, wallpaper)
  - **Window treatments** (cellular shades, curtains, draperies, EMI/RFI shielding, faux wood blinds, horizontal blinds, mini-blinds, panel track blinds, pleated shades, printed screens, roman shades, roller shades, shear shades, shutters, solar shades, valiances, vertical blinds, wood blinds, woven wood shades,
  - **Flooring** (anti-slip, anti-static and electrical dissipation, artificial turf, bamboo, carpet, ceramic tiles, cleanroom composite panels and tile, concrete, cork, EMI/RFI shielding, epoxy, hardwood, in-floor particle, laminate, linoleum, mats, natural stone, porcelain tiles, radiant, rugs, vinyl)
- **Household, commercial, hospitality, institutional and healthcare materials, products, parts, components, and accessories**
  - **Bathroom** (bidets, dispensers, grab bars, hand dryers, hooks, mats, mirrors, lockers, partitions, plungers, portable restrooms, racks, shelves, shower curtains, signs, sinks, toilet seats, vanities, tubs and liners, waste receptacles)
  - **Cleaning** (acoustic cleaning equipment, air knives, brooms, brushes and brush bristles, cyclone dust collectors, dustpans, feather dusters, floor scrubbers, laundry balls, mops, mop buckets, parts washers, pigging, pipe cleaning equipment, pressure washers, scouring pads, sponges, spray bottles, squeegees, steam mops, sweepers, swiffers, toilet bowl brushes, tote caddies, trash bags, vacuum trucks, vapor steam cleaners, wash racks)
  - **Eyewear and eye care** (Eyeglass frames, eyewear cases, interliners, lenses, nose pads, straps, examination room and optical lab equipment parts and accessories)

- **Farm and garden** (axes, chainsaws, cultivators, edgers, hoses, hedge trimmers, hoes, implements, lawn mowers, leaf blowers, loppers, pickaxes, pitchforks, post hole diggers, pots, potting benches, pruning shears, rakes, shovels, spades, sprinklers, string trimmers, trays, trowels, watering cans, wheelbarrows, woodchippers)
- **Hardware** (chalk line reels, circular saws, clamps, drills, gloves, grinders, hammers, hard hats, ladders, levels, mailboxes, nail guns, oscillating tools, planes, pliers, sanders, sawhorses, saws, screwdrivers, staplers, stud finders, tape measures, tool belts, toolboxes, trowels, utility knives, workbenches, wrenches)
- **Home and travel** (artificial plants, arts and crafts, backpacks, baggage carts, bags, baskets, boxes, briefcases, buckets, canoe packs, clothes hangers, clothes lines, clothespins, drink coasters, duffle bags, fanny packs, flight bags, footlockers, garment bags, hair rollers, hampers, holiday decorations, ironing boards, mail bags, mail pouches, mattress pads, money belts, nail clippers, nail files, napkin holders, pens, pencil sharpeners, placemats, scissors, sewing products, shoe hangers, shoehorns, shower puffs, slipcovers, soap dishes, suitcases, toiletry bags, toothbrushes, toys, trash cans, trunks, wallets)
- **Personal protective equipment** (acoustic foam, anti-static and conductive footwear, aprons, bump caps, cleanroom gowns and accessories, energy absorbers, face and side shields, foot protection, gloves, goggles, masks, gowns, hard hats, harnesses, helmets, head coverings, hearing protection, high visibility vests, protective glasses, safety boots and shoes, shoe covers, visors, wipes)
- **Laminates and film materials, parts, and components**
  - Coatings, paints, adhesives, sealants, plastics, and foam used for the manufacture, fabrication, protection, and assembly of laminate and film materials, parts, and components.
- **Metal parts and components**
  - Coatings, paints, adhesives, sealants, used for the manufacture, fabrication, protection, and assembly of metal parts, and components.
- **Outdoor products, parts, components, and accessories**
  - Arbors, automobile covers, awnings, banners, beach chairs, boat covers, camping chairs, canvas, carpets, chimes, ducking, enclosures, equipment shielding, flags, garden furniture, geotextiles, hammocks, inflatable party activities, isolation enclosures, lifebelts, lifejackets, marine cables and cords, ornamental features, park furniture, patio sets, picnic tables, playground sets, playhouses, pool covers, pots, public seating, recreational vehicle covers, ropes, sails, sandboxes, shade sails, signage, stadium seating, stakes, sun blinds, swing sets, table clothes, tarpaulins, tents, traffic cones and barriers, trampolines, truck tarps, umbrellas, upholstery, warning signs.
- **Packaging, containers and equipment materials parts, components, and accessories**
  - Anti-static bags, bags, boxes, caps, closet organizers, coated paper, drums, filling equipment, foils, form fill, garage storage containers, insulation, labels, labelers, laundry storage, marketing & graphics, over wrappers, scales, sealing machinery, shielding
  - shipping and storage containers, stamping equipment, storage carts, strapping, stretch and shrink wrapping equipment, wrapping.
- **Paper products and materials**
  - Coatings, paints, adhesives, and sealants, used for the manufacture, fabrication, protection, and assembly of paper product and materials.
- **Pet products parts, components, and accessories**
  - Backpacks, booties, brushes, cages, car barriers, cat litter trays, collars, costumes, crates, crate liners, feeders, fencing, furniture, harnesses, leashes, mats, pet carriers. pet doors and gates, poop scoopers, ramps, storage bins, toys, water and food dishes.
- **Sports and recreational equipment, parts, components, and accessories**
  - **General** (backpacks, balls, bags, bats, bikes, blankets, boards, braces, canoes, canopies, caps, clipboards, clubs, compression items, cones, crash pads, dry sacks, equipment bags, exercise equipment, floats, flying discs, foam rollers, gloves, goals and nets, goggles, helmets, hydration packs, kayaks, lanyards, liners, massagers, mats, mattresses, mittens, packs, padding, performance monitoring, ponchos, prosthetics, protective padding, rackets, racks, rods and tackle, rucksacks, scooters, sleds, sleeping bags, skates, skis, snowshoes, sticks, stuff sack, swim aids, tarps, tents, weights, whistles, wraps)

- **Activities** (aerobics, archery, badminton, baseball, basketball, biking, billiards, boating, bowling, boxing, camping, canoeing, cheerleading, climbing, cricket, cycling, dance, darts and dartboards, disc sports, equestrian, fencing, field hockey, fishing, football, gymnastics, hand ball, hang gliding, hiking, hunting, ice hockey, kayaking, lacrosse, martial arts, motorized racing, pilates, polo, racquetball, rafting, rodeo, rugby, running, sailing, skiing, sky diving, sledding, soccer, softball, squash, surfing, swimming, tennis, track and field, triathlon, volleyball, water polo, weightlifting, wrestling, yoga)
- **Tapes and tiles materials, parts, and components**
  - Coatings, paints, adhesives, sealants, used for the manufacture, fabrication, protection, and assembly of tapes and tiles materials, parts, and components.