



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

93413-1

Date of Issuance:

7/17/25

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

CoreSil™ Silver Nitrate Solution

Name and Address of Registrant (include ZIP Code):

Manuela Petrisor, Regulatory Consultant
Consultant for Cactus Materials, Inc.
c/o Sagentia Regulatory
1150 18th Street, NW, Suite 1000
Washington, D.C. 20036
Electronic Transmittal: Manuela.petrisor@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 (FIFRA).

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 conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Steven Snyderman, Product Manager 33
Regulatory Management Branch II
Antimicrobials Division (7510M)
Office of Pesticide Programs

Date:

7/17/25

2. You are required to comply with the data requirements described in the DCI Order identified below:

- a. Silver Nitrate: GDCI-072503-1835; 072503-1131

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Reevaluation Team Leader (Team 36): <https://www.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobials-division>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 93413-1."
4. Submit one copy of the 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 FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). 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) lists 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, FIFRA section 12(a)(1)(B). 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 Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). 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 03/13/2025

If you have any questions, please contact Srinivas Gowda by phone at 202-565-0078, or via email at gowda.srinivas@epa.gov.

Enclosure: Final Stamped Label

CoreSil™ Silver Nitrate Solution

This product is for use as an ingredient in the production of commercial and consumer products to impart antimicrobial properties, including water filters, synthetic fibers and textiles, and plastics. Silver preserves the finished products and protects them from bio-fouling and the growth of bacteria, mold and mildew during the life of operation.

Active Ingredient:

Silver Nitrate..... 4.85 %

Inert Ingredients..... 95.15 %

TOTAL..... 100.00 %

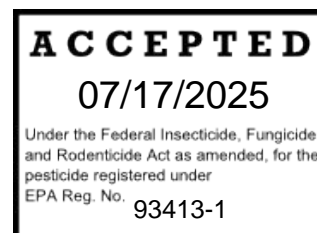
This product contains 50.96 grams of silver nitrate per liter and 4.85% by weight.

KEEP OUT OF REACH OF CHILDREN (KOROC)

DANGER



[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.]



FIRST AID	
If In Eyes	<ul style="list-style-type: none">• 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 eye.• Call a poison control center or doctor for treatment advice.
If On Skin Or Clothing	<ul style="list-style-type: none">• 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 Inhaled	<ul style="list-style-type: none">• Move person to fresh air and keep comfortable for breathing.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison center or doctor immediately.
If Swallowed	<ul style="list-style-type: none">• 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222.	
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage	

GENERAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency and general information on product use, etc., information pertaining to this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday – Friday, 8:00 am - 12:00 pm Pacific Time; email: npic@ace.orst.edu; or web site: www.npic.orst.edu.

EPA Reg. No. 93413-TBD
EPA EST. No. _____

Manufactured for:
Cactus Materials, Inc.
2507 W Geneva Dr
Tempe, AZ, 85282
United States

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.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin or inhaled. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear protective eyewear such as goggles, face shield, or safety glasses. Wear coveralls worn over long-sleeve shirt and long pants, socks, chemical-resistant footwear, and waterproof gloves. Wear a chemical-resistant apron when mixing and loading. Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air purifying respirator with HE filters. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before use. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals

Handler Personal Protective Equipment (PPE)

Handlers must wear a long-sleeve shirt, long pants, shoes, socks, and chemical-resistant gloves.

User Safety Requirements

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

Adequate ventilation should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

User Safety Recommendations

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust

masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrate. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water and Board or Regional Office of U.S. EPA.

Physical or Chemical Hazards

The product is an oxidizer! Keep away from reducing agents

DIRECTIONS FOR USE

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

IMPORTANT! Read precautionary statements before using this product.

CoreSil™ Silver Nitrate Solution is for use in the manufacture of the finished products listed below to impart anti-biofouling and antimicrobial properties. The product inhibits the growth of stain and odor causing bacteria, mold, and mildew on the product to which it is applied.

This product is not approved for any food contact or food packaging uses.

(A) Filters

CoreSil™ Silver Nitrate Solution may be used to treat water filters at a concentration of up to 0.03% silver (equivalent to 0.05% silver nitrate) by weight to protect the filters from biofouling. The silver-treated filters perform by suppressing the growth of biofouling bacteria on the membrane surfaces within the filter. Contact Cactus Materials for specific filter manufacturing instructions. Use silver-treated filters with cold water only.

(B) Fibers

CoreSil™ Silver Nitrate Solution is intended for the treatment of fibers made from synthetic or natural substances, including polyester, nylon, polypropylene, acrylic, rayon, cotton, linen, silk, wool, and blends. Prior to application, the product needs to be diluted to 0.3 – 1%, resulting in a diluted concentration of

approximately 0.015 - 0.049% in silver nitrate content, respectively, prior to application. The treated fibers may be used in the following products for non-food uses only:

- Apparel, other than those used for medical purposes. These include, but are not limited to, outerwear, formal wear, casual wear, sportswear, sleep wear, trim for outerwear and garments, uniforms, stockings, socks, hosiery, caps, hats, helmets, undergarments, shoes, gloves, and aprons;
- Industrial products, other than food-contact articles. These include, but are not limited to, bags, sacks, wraps, commercial and industrial wipes; uniforms, and coats;
- Household products, other than food-contact articles and articles used for medical purposes. These include, but are not limited to, napkins, tablecloths, wiping cloths, mops, shower curtains, towels, sheets, blankets, mattress cover pads and filling, pillow covers, fiberfill for quilts and pillows, seat cushion pads and filling, curtains and draperies, carpet, and carpet underlay, rugs, upholstery fabrics, wall-covering fabrics, book covers, and needlework yarns and fabrics;
- Outdoor materials, other than articles made for long-term immersion in water. These include, but are not limited to, umbrellas, sails, sleeping bags, tents, tarps, and awnings;
- Automotive products. These include, but are not limited to, automobile and truck upholstery and carpeting.

(C) Plastics and plastic composite materials

CoreSil™ Silver Nitrate Solution may be incorporated into the finished product at up to 0.515% by weight or at least 0.02% for bulk plastics. Contact Cactus Materials to determine the appropriate amount of Silver Nitrate Solution for individual finished products.

Specific materials: Resins including alkyds, amino resins (including melamine formaldehyde and urea formaldehyde), polyester (including PET, PBT, and PEN), polyamide (Nylon), polyimide, polypropylene (PP), polyethylene (PE), polyols (including ether, ester, caprolactone, and butadiene), polyurea, polybutylene, polymethylpentene (PMP), polysiloxane, polyvinyl alcohol (PVOH), polyvinyl acetate (PVA), ethylene vinyl acetate (EVA), polyethylene copolymer, polyvinyl chloride (PVC), epoxies, phenolics, styrenics (including PS, ASA, and ABS) polycarbonate, cellulosics, cellulose acetate, polyurethane, acrylic, acrylates (including polymethyl methacrylate, acetals, polyketones, polyphenylene, polyphenylene sulfide, polyphenylene oxide, polysulfones, liquid crystal polymer, fluoropolymers, thermoplastic elastomer, rubber (including styrene, butadiene, common acrylonitrile rubber, CR), polyacetal (polyoxymethylene), and blends and copolymers thereof.

Applications: Do not use for any applications involving food contact, food packaging, or storage of human drinking water. Applications include toilet seats, toilets, sinks, urinals, bidets, lavatories, bathtubs, spas, tile, flooring, shower doors, shower walls, shower trays, bath and kitchen accessories, plumbing supplies and fixtures, countertops, handles, knobs, automobile parts, shower curtains, mats, protective covers, waste containers, general purpose containers, shower heads, mops, brooms, tapes, packaging, gaskets, pipes, tubing, pipe fittings, whirlpool tub and spa components, structural reinforcement composites (e.g., fiber reinforced resin backings), furniture, HVAC parts and equipment, window blinds, tools, keyboards, personal grooming equipment, footwear including boots, sports equipment, telephones, and computer equipment.

(D) Coatings and films

CoreSil™ Silver Nitrate Solution may be incorporated into the coating and films applied to the finished product at up to 0.515% by weight, or at least 0.02% for paper or 0.02% for bulk plastics. Contact Cactus Materials to determine the appropriate amount of Silver Nitrate Solution for individual finished products.

Types of coatings: All application methods including water borne, nonaqueous solvent borne, 100% solids, physical vapor deposition, radiation cure, liquid, slurry, and powder coatings.

Specific materials: Resins including alkyds, amino resins (including melamine formaldehyde and urea formaldehyde), polyester (including PET, PBT, and PEN), polyamide (Nylon), polyimide, polypropylene (PP), polyethylene (PE), polyols (including ether, ester, caprolactone, and butadiene), polyurea, polybutylene, polymethylpentene (PMP), polysiloxane, polyvinyl alcohol (PVOH), polyvinyl acetate (PVA), ethylene vinyl acetate (EVA), glycols (including DEG, EG, PG, DPG, and BDO), betaines, thiols, polyethylene copolymer, polyvinyl chloride (PVC), polyaspartics, epoxies, phenolics, styrenics (including PS, ASA, and ABS), polycarbonate, polypeptides, cellulose, cellulose acetate, polyurethane, acrylic, acrylates (including polymethyl methacrylate, acetals, polyketones, polyphenylene, polyphenylene sulfide, polyphenylene oxide, polysulfones, liquid crystal polymer, and fluoropolymers, amino resins, thermoplastic elastomer, rubber (including styrene, butadiene, common acrylonitrile rubber, CR), polyacetal (polyoxymethylene), and blends and copolymers thereof.

Applications: Do not use for any applications involving food contact, food packaging, or storage of human drinking water. Applications include toilet seats, toilets, sinks, urinals, bidets, lavatories, bathtubs, spas, tile, flooring, shower doors, shower walls, shower trays, bath and kitchen accessories, plumbing supplies and fixtures, countertops, handles, knobs, automobile parts, shower curtains, mats, protective covers, waste containers, general purpose containers, shower heads, mops, brooms, tapes, packaging, gaskets, pipes, tubing, tube fittings, whirlpool tub and spa components, structural reinforcement composites (e.g., fiber reinforced resin backings), furniture, HVAC parts and equipment, window blinds, tools, keyboards, personal grooming equipment, footwear including boots, sports equipment, telephones, and computer equipment.

STORAGE AND DISPOSAL

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

STORAGE: Keep tightly closed in dry, cool and well-ventilated place. Do not store in areas where food or feed may come in contact with the product. Keep away from direct sunlight.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. Unused material should be disposed of in accordance with federal, state, and local environmental control regulations. 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: Emptied container retains products residue. Observe all labeled safeguards until container is destroyed. Completely empty contents into equipment. Then dispose of empty container in a sanitary landfill or by other approved method.

[For non-refillable containers equal to or less than 5 gallons:] Non-Refillable 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 $\frac{1}{4}$ 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 incineration.

WARRANTY STATEMENT

Cactus Materials, Inc warrants that this product conforms to the chemical description on the label. Cactus Materials, Inc makes no warranties of merchantability or fitness for a particular use or any other expressed or implied warranty except as so stated above.