



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

EPA Reg. Number:

84610-2

Date of Issuance:

5/15/15

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

NSPW-L30SS

Name and Address of Registrant (include ZIP Code):

Wayne Krause
 Nanosilva, LLC
 65 Torry Pines Ct.
 Newnan, GA 30265

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 conditionally registered in accordance with FIFRA section 3(c)(7)(C). 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 products contained in relevant cases to submit such data.

Signature of Approving Official:

John Hebert, Chief
 Regulatory Management Branch I, Antimicrobials Division
 (7510P)

Date:

5/15/15

2. Be aware that proposed data requirements have been identified in a Work Plan. For more information on these proposed data requirements, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>
3. You are required to submit to the Agency protocols and data, based on a tiered approach, deadlines for submission of the protocols and data requirements are outlined in the enclosed Data Requirements and Schedule Table. Your failure to provide these data in a timely or adequate manner may result in initiation of a cancellation action against your registration.
4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 84610-2.”
5. 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 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 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 05/06/2015

If you have any questions, please contact Seiichi Murasaki at murasaki.seiichi@epa.gov.

Enclosures:
Data Requirements and Schedule Table
Stamped Label

Data Requirements and Schedule

NSPW-L30SS and plastics treated with NSPW-L30SS will be the test material during Tier I (Phases 1 – 4) studies. The test material for Tier II studies (Phases 5 – 9) will depend on the results of the Tier I leaching and dissolution studies (nanosilver and /or NSPW-L30SS released).

| Guideline | | Protocols* | Results† |
|---|---|------------|-----------|
| Phase 1 – NSPW-L30SS Characterization | | 3 | 12 |
| NGL | Particle Size Distribution | | |
| NGL | Surface Area | | |
| Phase 2 – Product Testing | | 3 | 12 |
| NGL | Particulate Stability | | |
| Phase 3 – Release Characteristics/Exposure | | 3 | 15 |
| NGL | Dissolution Kinetics | | |
| NGL | Leaching Test of Plastic | | |
| Phase 4 – Health Effects | | 6 | 32 |
| 870.3250 | Modified 90-Day Inhalation | | |
| 870.3550 | Modified Reproduction/Developmental Toxicity Screening Test | | |
| Phase 5 – Ecological Effects | | 6 | 18 |
| 850.1010 | Aquatic Invertebrate Acute Toxicity, Freshwater Daphnids | | |
| Phase 6 – Characterization | | 18 | 24 |
| NGL | Plasmon Resonance | | |
| NGL | Particle Size Distribution | | |
| NGL | Surface Area | | |
| 830.7840 / 830.7860 | Solubility | | |
| NGL | Zeta-potential | | |
| Phase 7 - Health Effects | | 18 | 45 |
| NGL | peri- and post-natal exposure to NSPW-L30SS | | |
| 870.7600 | Dermal Penetration | | |
| Phase 8 – Ecological Effects | | 18 | 45 |
| 850.1850 | Modified Aquatic Food Chain Transfer | | |
| 850.4100 | Terrestrial Plant Toxicity, Seedling Emergence | | |
| 850.4400 | Aquatic Plant Toxicity, Tier II (Definitive) Test | | |
| 850.4500 | Algal Toxicity, Tier II (Definitive) Test | | |
| 850.4550 | Cyanobacteria Toxicity, Tier II (Definitive) Test | | |
| NGL | Chronic Effects of Sediment-Associated Contaminants on <i>Chironomus dilutes</i> | | |
| NGL | Chronic Effects of Sediment-Associated Contaminants on <i>Hyalella azteca</i> | | |
| NGL | Chronic Effects of Sediment-Associated Contaminants on <i>Leptocheirus plumulosus</i> | | |
| 850.1075 | Acute Toxicity Test with Freshwater and Marine Fish | | |

| Guideline | | Protocols* | Results† |
|-------------------------------------|---|-------------------|-----------------|
| 850.1300 | Daphnid Chronic Toxicity Test | | |
| 850.1400 | Early-Life Stage Toxicity Test for Freshwater, Estuarine, and Marine Fish | | |
| Phase 9 – Environmental Fate | | 18 | 45 |
| NGL | Rate of Deposition/Aggregation | | |
| 850.1100 | Activated Sludge Sorption Isotherm | | |
| 835.1230 | Adsorption/Desorption (Soil/Sediment) modified to include leaching component | | |
| 850.3300 or OECD 209 | Activated Sludge, Respiration Inhibition Test for Sparingly Soluble Chemicals | | |

*Number of months after conditional registration is issued to prepare and submit protocols.

†Number of months after conditional registration is issued to perform study and submit results.

NGL = Non-Guideline

EMERGENCY CONTACT INFORMATION

Have the product label or container with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific time. During all other hours, call the Poison Control Center at 1-800-222-1222.

STORAGE AND DISPOSAL

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

Pesticide Storage: Do not store in areas accessible to children. Keep container tightly closed. Keep container in cool area and away from direct sunlight.

Pesticide Disposal: Waste disposal must be in accordance with federal, state, and local environmental control regulations.

Container Handling: Nonrefillable Container. Do not reuse or refill this container. Dispose of container in sanitary landfill or by incineration, if allowable by state and local authorities.

WARRANTY STATEMENT

NanoSilva, LLC. warrants that this product conforms to the chemical description on the label. To the extent consistent with applicable law, NanoSilva, LLC., makes no warranties of merchantability or fitness for a particular use or any other expressed or implied warranty except as so stated above.

ACCEPTED

May 15, 2015

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 84610-2

DATE MANUFACTURED:
BATCH NUMBER:
LOT #:
EXPIRATION DATE:

NSPW-L30SS

NSPW-L30SS is a silver-silica based antimicrobial additive for use in the protection of polymeric intermediates and subsequent treatment of polymer and polymer-based products.

ACTIVE INGREDIENT:

Silver* 1.00%

OTHER INGREDIENTS:..... 99.00%

TOTAL..... 100.00%

*includes particles in the size range between 1 to 100 nm.

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

Causes Moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

WORKER PROTECTION

Closed system loading of NSPW-L30SS containing suspension.

NIOSH certified full-face respirators with P100 or equivalent filter cartridges immediately available for use in an emergency.

Gloves which are chemically resistant to all of the components of the NSPW-L30SS liquid suspension.

A long-sleeve shirt, long pants, shoes plus socks.

FIRST AID

IF SWALLOWED: Rinse mouth and throat thoroughly with tap water, seek medical attention.

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, the continue rinsing.

IF ON SKIN: Wash skin with soap and water, remove contaminated clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and birds. 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.

EPA Registration No: 84610-E EPA Establishment No: 084610-FL-001

Net Contents: 1 Liter (33.8 US oz.)

DIRECTIONS FOR USE

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

NSPW-L30SS is an antimicrobial additive engineered for use in the manufacture of polymer or plastic based intermediates that may be integrated into products listed in the technical bulletin for NSPW-L30SS antimicrobial during the manufacturing process to impart antimicrobial activity to the manufactured product.

NSPW-L30SS may only be incorporated into linear low-density polyethylene (LLDPE) and polyethylene terephthalate based polymeric intermediates.

This product is not for use in applications involving food contact, food packaging, or drinking water.

****See Technical Bulletin for detailed use information****

NSPW-L30SS suppresses the growth of bacteria, fungus, mold and mildew which can cause unpleasant odors, discoloration, staining and deterioration of untreated manufactured products.

Finished products containing NSPW-L30SS antimicrobials can not make public health claims relating to antimicrobial activity without EPA pesticide registration. When used in treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses or other disease causing organisms.

APPLICATION RATE

The maximum application rate for industrial polymeric intermediates is 2% by weight of NSPW-L30SS. This dosage applies only to intermediate manufacturing/industrial uses. It does not apply to active ingredient concentrations in consumer finished products.

The maximum application rate for treatment of finished product is 15.0% by weight of Polymeric Intermediates containing 2% NSPW-L30SS.

The maximum silver content for finished treated products is 0.003% or 30 ppm.

NSPW-L30SS
Antimicrobial Additive
EPA Reg. 84610-E

Technical Bulletin

Refer to the container label for more information.

NSPW-L30SS is a silver-silica based antimicrobial additive engineered through proprietary developments in nanotechnology for use in the protection of polymer and polymer-based products to include synthetic textiles. NSPW-L30SS may only be incorporated into linear low-density polyethylene (LLDPE) and polyethylene terephthalate based polymeric intermediates.

NSPW-L30SS suppresses the growth of bacteria, fungus, mold and mildew which can cause unpleasant odors, discoloration, staining and deterioration of untreated manufactured products.

Finished products containing NSPW-L30SS antimicrobials may not make public health claims relating to antimicrobial activity without EPA pesticide registration. When used in treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses or other disease causing organisms.

DIRECTIONS FOR USE

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

The maximum application rate for industrial polymeric intermediates is 2% by weight of NSPW-L30SS. This dosage applies only to intermediate manufacturing/industrial uses. It does not apply to active ingredient concentrations in consumer finished products.

Polymeric intermediates containing NSPW-L30SS Antimicrobials (master batch) may be integrated into finished products during the manufacturing process at 5.00 -15.00% by weight.

The maximum application rate for treatment of finished product is 15.0% by weight of Polymeric Intermediates containing 2% NSPW-L30SS.

The maximum silver content for consumer finished products is 0.003% or 30 ppm.

NSPW-L30SS

This product is not for use in applications involving food contact, food packaging, or drinking water.

NON-FOOD USE; INDOOR; FIFRA§ 2 (mm) USES:

Plastics including Films, Sheets, Slabs and Molded Plastic Parts; Textiles

House Wares- Trash cans; dish drainers; place mats; mops; brooms; dust pans; non-food contact scrub brushes; door mats; window blinds; non-food contact containers; liners; dish mats; draperies; furniture; upholstery; non food contact surfaces in blenders, mixers

Building Materials- base boards; siding; wall board; hand railing; chair railing; trim and molding; floor covering; light switches and fixtures; plastic decking; fencing; carpeting; indoor/outdoor carpeting; tile; hardware; handles; wall covering; mop board; splash guards; Astro turf; artificial turf; gable vents; window frames and trim, screens; awnings; grout; chalk

Bathroom Fixtures and Accessories- toilet seats; toilet brushes; toilet plungers; mats; shower curtains; hardware; showers; tubs; bath seats

Electronics and Appliances- cell phones; computers; public and residential phones; remote controllers; vacuum cleaners; liners; control cabinets; plastic components in humidifiers; TV's; microphones; head phones

Personal Care- combs and brushes; electric razors; blow dryers; curling irons; curlers; scrub brushes

Automotive and Equipment- interior components; carpet; accessories

Hospitals and Institutional Facilities and Equipment- beds; wall coverings; curtains; trim; mop boards; flooring; walkers; wheel chairs; bath seats; transfer benches; transfer boards; crutches; canes; bed pans; bed side commodes; mattress covers; sharps containers; linens

Sporting Goods- golf bags; exercise equipment; gripping tape; golf shoes; rucksack/ back packs; life preservers

Textiles- performance sportswear; nursing uniforms and apparel; shoes and footwear; military uniforms and equipment; carpeting (indoor/outdoor) and artificial-turf; watch bands; restaurant uniforms and chef apparel

Miscellaneous Applications- cat litter boxes; swimming pool construction material and equipment; spas construction materials and equipment; shopping cart handles; ink pens; dish busing trays; service trays; patio furniture; conveyor belts; non-potable water pipe/tubing; flash lights; distress signals; soap dispensers; paper towel dispensers; hand dryers; port-a-potties; office supplies; luggage