

67071-11

05/17/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

Thor GmbH
Landwehrstrasse 1
D-67346,
Speyer, Germany

MAY 17 2012

AGENT: Acti-Chem Specialties, Inc.
56 Quarry Road
Trumbull, CT 06611

Attention: Lynn P. Tordo, MS.
Regulatory Manager

Subject: ACTICIDE SPX
EPA Registration No. 67071-11
Notification Dated April 17, 2012

This will acknowledge receipt of your notification, submitted under the provisions of FIFRA Section 3(c)(9).

Proposed Notification

Label Change as required by the State of California and per PR Notice 98-10

General Comments

Based on a review of the submitted material, the following comments apply:

The Notification is in compliance with PR Notice 98-10 and is acceptable. This information has been added to your file.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6341.

Sincerely,

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)



United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 67071-11	2. EPA Product Manager Marshall Swindell	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Thor GmbH / ACTICIDE SPX	PM# 33	
5. Name and Address of Applicant (Include ZIP Code) Thor GmbH, Landwehrstrasse 1, D-67346, Speyer, Germany U.S. Agent: Thor Specialties, Inc. 50 Waterview Drive, Shelton, CT 06484 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>67071-11</u> Product Name <u>ACTICIDE SPX</u>	

Section - II

Amendment - Explain below. Final printed labels in response to Agency letter dated _____
 Resubmission in response to Agency letter dated _____ "Me Too" Application.
 Notification - Explain below. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change as required by the State of California and per PR Notice 98-10 / 95-2. This notification is consistent with the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container

3. Location of Net Contents Information
 Label Container

4. Size(s) Retail Container
5, 55, and 265 gallons

5. Location of Label Directions

6. Manner in Which Label is Affixed to Product
 Lithograph Paper glued Stenciled Other _____

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Lynn P. Tordo	Title Regulatory Manager	Telephone No. (Include Area Code) 203-516-6980
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Certification
 I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature
Lynn P. Tordo

3. Title
Regulatory Manager

4. Typed Name
Lynn P. Tordo, M.S.

5. Date
April 17, 2012

6. Date Application Received (Stamped)



VIA FEDEX

April 17, 2012

Mr. Marshall Swindell, Product Manager 33
Regulatory Management Branch I
Antimicrobial Division, OPP (751OW)
U.S. ENVIRONMENTAL PROTECTION AGENCY
2777 Crystal Dr. (Potomac Yard South)
Arlington, VA 22202

Re: Product: ACTICIDE® SPX, EPA Registration No. 67071-11
Notification of label change
Company: Thor GmbH;
US Agent: Thor Specialties, Inc

This is a notification and not subject to fees

Dear Mr. Swindell:

This label change notification is submitted by Thor Specialties, Inc., U.S. agent for Thor GmbH. This notification of label change is as required by the State of California and per PR Notice 98-10 / 95-2.

The State of California requested that we submit this notification with regards to the addition of the qualifier "**not approved for use in the state of California".

Modifications are as follows:

- I) The following modification has been made to the container label:
The qualifier (*) has been removed from the front of the uses have been approved for use in the state of California: water treatment/process waters
- II) The following modification has been made to the Information Sheet See next page for specifics:
 - a) A qualifier (*) has been added to the front of the uses which are not currently approved for use in California and the explanation of the asterisk (*) has been included at the end of the use statement to indicate that this particular use is not approved in the state of California
 - b) A qualifier (*) has been removed from the front of the uses which are approved for use in California and the explanation of the asterisk (*) has been included at the end of the use statement to indicate that this particular use is not approved in the state of California:
 - c) The upper use level for "Air Wash Systems" has been changed to 886 ppm as California did not accept us rounding up to 900 ppm.

The attached material consists of the following:

- 1. Application Form for a Notification to modify the label.
- 2. Copy of ACTICIDE® SPX label with changes marked (FOR REFERENCE ONLY)
- 3. Final Printed copy of proposed ACTICIDE® SPX label

If you have any questions or need added information, please do not hesitate to contact me at your convenience.

Sincerely,

Lynn P. Tordo, M.S.
Regulatory Manager

Enc.

THOR SPECIALTIES, INC.

50 Waterview Drive · Shelton, CT 06484 · U.S.A.
Telephone: (203) 516-6980 · Fax: (203) 954-0005
Email: info@thorsp.com



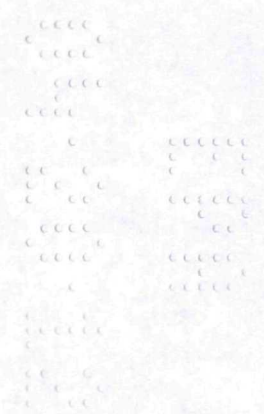
Mr. Marshall Swindell, Product Manager 33
U.S. ENVIRONMENTAL PROTECTION AGENCY
ACTICIDE® SPX, EPA Registration No. 67071-11
Notification of label change
Page 2 of 2
April 17, 2012

A qualifier (*) has been added to the front of the following uses which are not currently approved for use in California:

- *Special Purpose Coatings
- *ELECTRODEPOSITION
- *Tankside Addition To Electrodeposition Systems
- *TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS
- *PHOTOPLATE PROCESSING/PHOTO PROCESSING
- *FOUNTAIN SOLUTIONS

A qualifier (*) has been removed from the front of the following uses which have recently been approved for use in California:

- INDUSTRIAL RECIRCULATING WATER COOLING TOWER
- AIR WASHER SYSTEMS
- OIL FIELD INJECTION WATERS
- INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS



ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public 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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARD

This product is corrosive to mild steel.

STORAGE AND DISPOSAL

This product (pH 3.5) is corrosive to mild steel.
PESTICIDE STORAGE: Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If waste 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 DISPOSAL

Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: [For containers < 5 gallons in size] - 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. [For containers > 5 gallons in size] - Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. 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.

Do not apply this product in a way that will contact workers or other persons.
GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

CONDITIONS OF SALE AND WARRANTY

Thor GmbH warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. THOR GMBH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Thor GmbH and Seller. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL THOR GMBH OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8, PG-III

For Transportation / Spills Emergency:
 Call Chemtrec at 1-800-424-9300

ACTICIDE® SPX

ACTIVE INGREDIENTS:

- 5-Chloro-2-methyl-4-isothiazolin-3-one..... 1.11%
- 2-Methyl-4-isothiazolin-3-one..... 0.37%
- OTHER INGREDIENTS..... 98.52%
- TOTAL..... 100.00%

ACTICIDE® SPX microbicide weighs 8.6 lb. per gallon

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

See Side panel for additional precautionary statements

FIRST AID

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 eye.
 > Call a poison control center or doctor for treatment advice.

If Swallowed:
 > 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 the poison control center or doctor.

If on Skin:
 > Take off contaminated clothing.
 > Rinse skin immediately with plenty of water for 15-20 minutes.

If Inhaled:
 > Call a poison control center or doctor for treatment advice.
 > Move person to fresh air.
 > If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
 > Call a poison control center or doctor for further treatment advice

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

HOT LINE NUMBER: In case of emergency, for additional information call toll free 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Precautionary Statements:
 Hazards to Humans and Domestic Animals**

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID CONTACT WITH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

Mixers, loaders, and others exposed to methylisothiazolinone must wear:

- Long-sleeve shirt and long pants
- Socks and Shoes
- Goggles or face shield
- Chemical-resistant gloves (such as rubber or made out of any waterproof material)

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

User Safety Recommendations: users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

DIRECTIONS FOR USE

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

Industrial microbicide for use in *metal working fluids, *metal cleaning fluids, *hydraulic fluids, adhesives, *tackifiers, *dispersed pigments, *paints, building materials, polymer lattices, water treatment/process waters, *aqueous compositions, *dispersed pigments and in *liquid household consumer, industrial, janitorial products and *semi-solid/solid household consumer, industrial, janitorial-products which are classified as indoor non-food and non-food applications. READ AND FOLLOW THE DIRECTIONS FOR USE ON THE ACCOMPANYING INFORMATION SHEET.

*Not approved for this use in the State of California

EPA Reg. No. 67071-11 EPA Est. No. 67071-DEU-001
 Manufactured By/For: Thor GmbH

D-67346 Speyer, Germany
 Tel. (06232) 6360

U.S. Office:

Thor Specialties, Inc.
 50 Waterview Drive
 Shelton, CT 06484
 Tel. (203) 516-6980

Batch:

Mfg Date:

Net Contents (pounds):



ACTICIDE[®] SPX INFORMATION SHEET

THIS ACTICIDE[®] SPX INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE[®] SPX

DIRECTIONS FOR USE

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

***PRESERVATIVE FOR METAL WORKING FLUIDS:** ACTICIDE[®] SPX microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. Add 32 fluid ounces (2 lb) per 1000 gallons of emulsion every 4 weeks for maintenance of a nonfouled system. For a noticeably fouled system use an initial dose of 64 to 160 fluid ounces (4.5 to 10 lb) per 1000 gallons emulsion followed by subsequent maintenance dosage above. A higher dosage rate and/or increased frequency of treatment may be required depending upon the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system. ** Not approved for this use in the State of California.*

PRESERVATIVE FOR ADHESIVES AND *TACKIFIERS: ACTICIDE[®] SPX microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices. ACTICIDE[®] SPX microbiocide is recommended as a preservative for tackifiers derived from resin and hydrocarbon resins. Add 0.5 to 1.65 lb. ACTICIDE[®] SPX microbiocide to each 1000 lb of fluid to provide 7 ppm to 25 ppm of active isothiazolone ingredients. A higher dosage rate providing up to 45 ppm active ingredient may be required for storage during extremely high temperatures and humidity. ** Not approved for this use in the State of California.*

PRESERVATIVE FOR BUILDING MATERIALS: ACTICIDE[®] SPX microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackling and grouting. Add 0.5 to 1.65 lb of ACTICIDE[®] SPX microbiocide to each 1000 lb of fluid to provide 7 ppm to 25 ppm active isothiazolones.

PRESERVATIVE FOR LATICES: ACTICIDE[®] SPX microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including: acrylics, styrene/butadiene, carboxylated styrene/butadiene, ethylene/vinyl acetate and biopolymers intended for industrial use such as xanthan gum, gum arabic, guar gum, protein derived polymers, starches and casein derived polymers. Add 0.5 to 3.3 lb (227 g to 1.5 kg) ACTICIDE[®] SPX microbiocide to each 1000 lb (454 kg) of emulsion to provide 7 ppm to 50 ppm active isothiazolones. Note: To insure uniform mixing, add ACTICIDE[®] SPX microbiocide to latex or solutions slowly with agitation. The actual concentrations required will depend upon such factors as the specified substance to be treated, frequency of repeated microbial contamination expected and level of protection required.

***PRESERVATIVE FOR PAINTS AND COATINGS:** ACTICIDE[®] SPX microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper, wood coatings and paints used for architectural, product finishes and special purpose coatings. Add 0.5 to 1.65 lb (227 to 750 grams) ACTICIDE[®] SPX microbiocide to each 1000 lb (454 kg) of fluid to provide 7 ppm to 25 ppm active isothiazolone ingredients. A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during extremely high temperatures and humidity. ** Not approved for this use in the State of California.*

**Special purpose coating uses: Include use as a <> preservative for electrodeposition paints or solutions, <> preservative for photoplating solutions or coatings, <> preservative in fount (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates, and <> preservative in spin finish coatings for fibers.*

** Not approved for these uses in the State of California*

The application/addition directions for these special purpose coating uses are:

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ACTICIDE[®] SPX INFORMATION SHEET

**THIS ACTICIDE[®] SPX INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT
OF ACTICIDE[®] SPX**

DIRECTIONS FOR USE

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

***ELECTRODEPOSITION:** ACTICIDE[®] SPX microbiocide is recommended as a tankside additive for the control of bacteria, fungi, and algae in re-circulating electrodeposition systems and associated rinse systems. Alternately, ACTICIDE[®] SPX microbiocide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system. ** Not approved for this use in the State of California*

***Tankside Addition To Electrodeposition Systems:** ACTICIDE[®] SPX microbiocide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing. When the system is noticeably fouled, add 650 to 2245 ppm ACTICIDE[®] SPX microbiocide (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). This will provide 10 to 35 ppm of active ingredients. Repeat until control is achieved. When microbial control is evident, add 321 to 962 ppm ACTICIDE[®] SPX (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system. This will provide 5 - 15 ppm of active ingredient. A change of frequency of treatment may be required depending on the rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. ** Not approved for this use in the State of California*

***TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS:** Initial Dose of Paint Components: ACTICIDE[®] SPX microbiocide should be added to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 321 to 2245 ppm product (5 - 35 ppm active ingredient).

Supplemental Tanked Dosing of Electrodeposition System: If additional microbial control is necessary, ACTICIDE[®] SPX microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components. If the system becomes noticeably fouled, add 650 to 2245 ppm ACTICIDE[®] SPX microbiocide (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). This will provide 10 - 35 ppm of active ingredients. Repeat until control is achieved. When microbial control is evident, the system can be maintained by addition of 321 to 962 ppm. ACTICIDE[®] SPX microbiocide (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed. This will provide 5 - 15 ppm of active ingredients.

** Not approved for this use in the State of California*

NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should never exceed 35 ppm (equivalent to 2245 ppm ACTICIDE[®] SPX or 22.9 gallons per 10,000 gallons of system fluid).

INK/INK COMPONENTS, *PHOTOPLATE PROCESSING/PHOTO PROCESSING, AND *FOUNTAIN SOLUTIONS: ACTICIDE[®] SPX microbiocide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE[®] SPX microbiocide is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE[®] SPX microbiocide is recommended for the control of bacteria and fungi in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners. ACTICIDE[®] SPX microbiocide should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemicals of 0.1% to 1.0% on a total weight basis. The optimum level range for acidic fountain solutions is 0.2% to 0.5%; the optimum level range for neutral fountain solutions is 0.5% to 0.8%. A level adjustment may be necessary to accommodate the slight change in solution formulations. ** Not approved for this use in the State of California*

NOTE: To insure uniform mixing, add ACTICIDE[®] SPX microbiocide to latex or solution slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected and level of protection required.

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ACTICIDE® SPX INFORMATION SHEET

THIS ACTICIDE® SPX INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® SPX

DIRECTIONS FOR USE

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

INDUSTRIAL RECIRCULATING WATER COOLING TOWER: ACTICIDE® SPX microbiocide is recommended for the control of bacteria, algae and fungi. It should be added to the tower basin or some other point to ensure uniform mixing. Add 0.3 to 1.86 lb of ACTICIDE® SPX per 1000 gallons of water (35 to 220 ppm ACTICIDE® SPX) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 1.25 to 7.5 lb ACTICIDE® SPX per 1000 gallons of water. Repeat if necessary to achieve control.

AIR WASHER SYSTEMS: For use only in industrial air washing systems that maintain effective mist eliminating components. Add 0.3 to 7.5 lb ACTICIDE® SPX to 1000 gallons of water (35 to 886 ppm ACTICIDE® SPX) in the air washer sump, or chill water sump to ensure uniform mixing, for the control of bacteria, fungi and algae. A repeat treatment may be needed depending on the severity of contamination.

OIL FIELD INJECTION WATERS: Add 23 to 58 lb (2.8 to 6.9 gallons) ACTICIDE® SPX per 1000 barrels of water (66 to 165 ppm ACTICIDE® SPX) weekly or as needed to maintain control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids and drilling fluids. An initial dose of 57 to 115 lb ACTICIDE® SPX per 1000 barrels of water (162 to 324 ppm ACTICIDE® SPX) may be used until control is achieved. This product may be used for terrestrial and off-shore oil drilling muds and packer fluids.

***PAPER MILLS:** Add 0.45 to 1.5 lb of ACTICIDE® SPX per ton (dry basis) of pulp or paper produced as slug dose for the control of bacterial and fungal slime in the production of paper. ACTICIDE® SPX should be added to a point such as the Beater or Hydropulper to ensure uniform mixing. ** Not approved for this use in the State of California.*

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS: Add 0.3 to 1.86 lb of ACTICIDE® SPX per 1000 gallons of water in the system weekly to maintain control of bacteria, fungi and algae in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb ACTICIDE® SPX per 1000 gallons of water may be needed depending on the severity of the fouling.

***BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS:** Add 0.3 to 1.86 lb of ACTICIDE® SPX per 1000 gallons of water in the system weekly or as needed to maintain control of bacteria, algae and fungi. For noticeably fouled systems an initial treatment with 1.25 to 7.5 lb of ACTICIDE® SPX per 1000 gallons of water may be needed depending on the severity of the fouling ** Not approved for this use in the State of California.*

***ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS:** ACTICIDE® SPX microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems. Add 10 - 333 ppm of ACTICIDE® SPX microbiocide (0.15 - 5 ppm active ingredient) into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of ACTICIDE® SPX microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers. For the control of bacteria and fungi in carbon beds, add 10 - 333 ppm of ACTICIDE® SPX microbiocide (0.15 - 5 ppm active ingredient). For periodic membrane cleaning, add 0.4 - 1.0 lbs of ACTICIDE® SPX microbiocide to every 120 gallons of cleaning solution (6 - 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun. ** Not approved for this use in the State of California.*



ACTICIDE[®] SPX INFORMATION SHEET

THIS ACTICIDE[®] SPX INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE[®] SPX

DIRECTIONS FOR USE

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

***PRESERVATIVE FOR AQUEOUS COMPOSITIONS:** ACTICIDE[®] SPX microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as aqueous emulsions and dispersions including stabilized oil/water emulsions, surface preparation compounds, foam control products, nutrient solutions and pesticide formulations. ACTICIDE[®] SPX may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food or food contact surfaces. Add 0.5 to 3.3 lb. (227 g to 1.5 kg) of ACTICIDE[®] SPX microbiocide to each 1000 lb. (454 kg) of aqueous product to provide 7 ppm to 50 ppm active isothiazolones. * *Not approved for this use in the State of California.*

***LIQUID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL-PRODUCTS** ACTICIDE[®] SPX is added at a level of 0.4 to 1.5 lb. (180 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones. For the control of bacteria and fungi in liquid soaps, liquid cleaners, liquid detergents, liquid laundry products, liquid dishwashing detergents, waxes, polishes, liquid fabric treatment/refreshers products, liquid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE[®] SPX may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE[®] SPX may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact. * *Not approved for this use in the State of California.*

ACTICIDE[®] SPX microbiocide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.04% to 0.15% ACTICIDE[®] SPX microbiocide.

***SEMI-SOLID/SOLID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL-PRODUCTS** ACTICIDE[®] SPX is added at a level of 0.4 to 1.5 lb. (180 - 680 grams) to each 1000lb. (453.6 kilograms) of product to be protected to provide 6 to 22.5 ppm of active isothiazolinones. For the control of bacteria and fungi in semi-solid/solid soaps, semi-solid/solid cleaners, semi-solid/solid detergents, semi-solid/solid laundry products, semi-solid/solid dishwashing detergents, waxes, polishes, semi-solid/solid fabric treatment/refreshers products, semi-solid/solid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE[®] SPX may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE[®] SPX may also be used for the control of bacteria and fungi in solutions that are then put into/onto wet wipes for use in industrial, commercial, residential and household uses cited above. Wet wipes containing a solution preserved with this product may not be used for personal care, as baby wipes, or for food contact. * *Not approved for this use in the State of California.*

***DISPERSED PIGMENT PRESERVATION:** ACTICIDE[®] SPX microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and kieselguhr used in paint and paper productions. Add 0.6 to 2.25 lb of ACTICIDE[®] SPX (250 to 1020 grams) to each 1000 lb (453 kg) of fluid to provide 7 to 25 ppm active isothiazolones.

ACTICIDE[®] SPX microbiocide may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.04% to 0.15% ACTICIDE[®] SPX microbiocide.