ACTICIDE® SPX

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.

If Swallowed:
(a) Give plenty of water; or give a glass of water if able to swallow.
(b) Do not induce vomiting unless told to do so by the poison control center or doctor.

If on Skin:
Take off contaminated clothing.
Wear wash immediately with plenty of water for 15-20 minutes.

If Inhaled:
HOLD BREATH IF POSSIBLE.
(a) If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.
(b) Call a poison control center or doctor for further treatment advice.

Note to physician: Probable respiratory damage may indicate the use of gastric lavage.

Hot Line Number: 1-800-424-6300

For Transportation / Spill Emergencies:
Call Chemistries at 1-800-424-6300

Batch:
Mfg Date:
Net Contents (pounds):

Precautionary Statements:
Hazard to Humans and Domestic Animals

DANGER
Corrosive. Caused 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.

Inhale, skin irritants, and others exposed to methylisothiazolinone must wear:
- Long-sleeve shirt and long pants
- Socks and shoes
- Goggles or face shields
- 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 immediately.

Directions for Use
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Industrial microbicides for use in metal working fluids, metal cleaning fluids, "hydraulic fluids, adhesives, lacquers, paints, building materials, polymer solutions, aqueous compositions, dispersant 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-67348 Speyer, Germany
Tel. (06232) 6360
U.S. Office: Thor Specialties, Inc.
50 Walthanview Drive, Shelton, CT 06484
USA
Tel. (203) 516-6680
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 labelling.

Typical applications and suggested range of use concentrations based on total weight of product are as follows:

<table>
<thead>
<tr>
<th>PRESERVATIVE FOR METAL WORKING FLUIDS</th>
<th>32 FL OZ (2 LB) per 1000 GAL of emulsion every 4 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® SPX microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions. The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system. For a noticeably fouled system use an initial dose of 64 to 160 fluid ounces (4.5 to 10 lb) per 1000 gallons of emulsion followed by subsequent maintenance dosage. 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.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRESERVATIVE FOR ADHESIVES AND TACKIFIERS</th>
<th>0.05 – 0.165%</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 rosin and hydrocarbon resins. For storage during extremely high temperatures and humidity, use up to 0.3% (3.0 lb per 1000 lbs formulation).</td>
<td></td>
</tr>
<tr>
<td>0.5 – 1.65 LB per 1000 LBS formulation</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRESERVATIVE FOR BUILDING MATERIALS</th>
<th>0.05 – 0.165%</th>
</tr>
</thead>
<tbody>
<tr>
<td>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, grouting, and concrete admixtures.</td>
<td></td>
</tr>
<tr>
<td>0.5 – 1.65 LB per 1000 LB of fluid</td>
<td></td>
</tr>
</tbody>
</table>

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## PRESERVATIVE FOR LATICES

ACTICIDE® SPX microbicidal 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.

Note: To insure uniform mixing, add ACTICIDE® SPX microbicidal to latex or solutions 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.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 – 0.33%</td>
<td>0.5 – 3.3 LB per 1000 LB emulsion</td>
</tr>
<tr>
<td></td>
<td>227g – 1.5 KG per 454 KG of emulsion</td>
</tr>
</tbody>
</table>

## PRESERVATIVE FOR PAINTS AND COATINGS

ACTICIDE® SPX microbicidal 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.

A higher dosage rate may be required for storage during extremely high temperatures and humidity.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 – 0.165%</td>
<td>0.5 – 1.65 LB per 1000 LB fluid</td>
</tr>
<tr>
<td></td>
<td>227 – 750 grams per 454 KG fluid</td>
</tr>
<tr>
<td></td>
<td>Up to 0.3%</td>
</tr>
<tr>
<td></td>
<td>3.0 LB per 1000 LB fluid</td>
</tr>
</tbody>
</table>

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**Special purpose coating uses**

Use as a preservative for:

- Electrodeposition paints or solutions
- Photoplatinating solutions or coatings
- Fount (or fountain) solutions used in the printing process as a maintenance fluid/coating and as a special coating for printing plates
- 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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**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). Repeat until control is achieved.

When microbial control is evident, add 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 to maintain the system.

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.

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

*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). 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.

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

NOTE: Regardless of the manner of incorporation, the total level in the system should never exceed 2245 ppm ACTICIDE® SPX or 22.9 gallons per 10,000 gallons of system fluid.
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**DIRECTIONS FOR USE**

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*INK/INK COMPONENTS, *PHOTOPLATE PROCESSING/PHOTO PROCESSING, and *FOUNTAIN SOLUTIONS:

ACTICIDE® SPX microbicidal is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE® SPX is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® SPX is recommended for the control of bacteria and fungi in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waves, surfactants, and thickeners.

ACTICIDE® SPX should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemical 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 microbicidal 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.

<table>
<thead>
<tr>
<th><strong>INDUSTRIAL PROCESS WASH WATER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® SPX microbicidal is recommended for the control of bacteria and fungi in the storage of process wash waters.</td>
</tr>
<tr>
<td><em>Not approved for this use in the State of California</em></td>
</tr>
<tr>
<td>0.05 – 0.30%</td>
</tr>
<tr>
<td>0.5 – 3.0 LB per 1000 LB wash water</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PRESERVATIVE FOR AQUEOUS COMPOSITIONS</strong></th>
</tr>
</thead>
</table>
| ACTICIDE® SPX microbicidal is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as aqueous emulsions and dispersions including:
|  |
| *surfactants*
| *stabilized oil/water emulsions*
| *surface preparation compounds*
| *foam control products*
| *nutrient solutions*
| *pesticide formulations.* |
| 0.05 – 0.33% |
| 0.5 – 3.3 LB per 1000 LB aqueous product |
| 227 g – 1.5 KG per 454 KG of aqueous product |

**CONCENTRATES:**

ACTICIDE® SPX microbicidal 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 0.05 and 0.33% ACTICIDE® SPX microbicidal.

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### LIQUID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS

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/refresher 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.

**CONCENTRATES:**

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 and 0.15% ACTICIDE® SPX microbiocide.

| 0.04 – 0.15% | 0.4 – 1.5 LB per 1000 LB product |
| 180 – 680 grams per 453.6 KG product |

### SEMI-SOLID/SOLID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS

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/refresher 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.

| 0.04 – 0.15% | 0.4 – 1.5 LB per 1000 LB product |
| 180 – 680 grams per 453.6 KG product |

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<table>
<thead>
<tr>
<th>CONCENTRATES:</th>
<th>DISPERSED PIGMENT PRESERVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® SPX microbicid 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 and 0.15% ACTICIDE® SPX microbicid.</td>
<td>0.06 – 0.225%</td>
</tr>
<tr>
<td></td>
<td>0.6 – 2.25 LB per 1000 LB fluid</td>
</tr>
<tr>
<td></td>
<td>250 – 1020 grams per 453 KG of fluid</td>
</tr>
<tr>
<td></td>
<td>ACTICIDE® SPX microbicid 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, dispersed colorants and kieselguhr used in paint and paper production.</td>
</tr>
</tbody>
</table>