ACTICIDE® MV

Precautionary Statements:
Hazard to Humans and Domestic Animals
DANGER
CAUSES IRREVERSIBLE EYE DAMAGE HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. DO NOT GET IN EYES 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.

Means, labels, and others exposed to product must wear the following Personal Protective Equipment (PPE):
- long-sleeve shirt and long pants
- rubber gloves and apron
- shoe plus socks
- protective eyewear.

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. Use of personal blockout is mandatory. If pesticide gets inside, then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling. 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 pesticide's concentrate.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, septic tanks, oceans or other bodies of freshwater or in accordance with the requirement of the National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the appropriate treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Industrial microbiocide for use in metal working fluids, adhesives, wood, textiles, hydraulic fluids, dispersed pigments, metal cleaning fluids, building materials, polymer latexes, paints and coatings, "aqueous" compositions, and in Household consumer. Industrial, Janitorial, Process and Formulations. Read and follow the directions for use on the accompany warning sheet. Not approved for those used in the State of California.

ACTIVE INGREDIENTS:
- 5-Chloro-2-methyl-4-thiazolin-3-one (1.11%)
- 2-Methyl-4-thiazolin-3-one (0.37%)

OTHER INGREDIENTS: (0.00%)

TOTAL: (100.48%)

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO
See toxic 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 last 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:
- Remove 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:
- Remove from exposure.
- 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 profession: Probable ocular damage may contaminate the use of optical devices.

For Transportation / Spill Emergency:
- Call Chemtec at 1-800-424-9309

PHYSICAL AND CHEMICAL HAZARD
This product is corrosive to mild steel.

STORAGE AND DISPOSAL
This product (pH 7.0) 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 hazardous wastes. Improper disposal of excess pesticides or rinsewater is a violation of Federal Law. If wastes cannot be disposed of by use according to the 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 rinses container promptly after emptying. Triple rinse as follows: [For containers = 5 gallons is size] - Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to stop. Fill the container ¾ full with water and recirculate for 10 seconds. Pour rinse into application equipment or a mix tank or store rinsewater for later use or disposal. Drain for 10 seconds after the flow begins to stop. 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 ¾ full with water. Replace and lighter discharge. 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 rinse into application equipment or a mix tank or store rinsewater for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or purchase and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

GENERAL, CONSULT FEDERAL OR LOCAL DISPOSAL AUTHORITYS 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 instructions under normal conditions of use. THEOR GmbH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OR THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. THERUGS WARRANTIES INSURE MERCHANDABILITY OR FITNESS FOR A PARTICULAR USE. THERUGS LIABILITIES OR OTHER CONTRACTUAL OBLIGATIONS RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

EPA Reg. No. 67071-1
Manuf. ByFor:
EPA Est. No. 67071-DEU-001
U.S. Office: Thor GmbH
D-67345 Speyer, Germany 50 Waterrow Drive, Shelton, CT 06484
Tel. (0632) 6380 Tel. (203) 516-6900
UN 2365, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Batch: 
Mfg Date: 
Net Contents (pounds):
# ACTICIDE® MV INFORMATION SHEET

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

**DIRECTIONS FOR USE**

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## INDUSTRIAL PROCESS WASH WATER

ACTICIDE® MV microbiocide is recommended for the control of bacteria and fungi in the storage of process wash waters.

*Not approved for this use in the State of California

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 – 0.30%</td>
<td>0.5 – 3.0 LB per 1000 LB wash water</td>
</tr>
</tbody>
</table>

## PRESERVATIVE FOR METAL WORKING FLUIDS

ACTICIDE® MV 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 to 11 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.

<table>
<thead>
<tr>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 FL OZ (2 LB) per 1000 GAL of emulsion every 4 weeks</td>
</tr>
</tbody>
</table>

## WATER-BASED HYDRAULIC FLUID PRESERVATION

ACTICIDE® MV microbiocide is recommended as a preservative for use in the manufacture and use of high water-based hydraulic fluids and invert emulsion hydraulic fluids typically prepared by emulsifying 40% by volume water in 60% by volume of mineral oil using an oil soluble emulsifying agent.

For a noticeably fouled system use an initial dose of 150 to 250 fluid ounces (10 to 17 lb) per 1000 gallons fluid to be followed by subsequent maintenance dosage. A higher dosage range and/or increased frequency of treatment may be required depending upon rate of dilution of the preservative with make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

<table>
<thead>
<tr>
<th>Use</th>
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<tbody>
<tr>
<td>120 to 150 FL OZ (8 to 10 LB) per 1000 GAL of fluids every 8 weeks</td>
</tr>
</tbody>
</table>

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**EPA Reg. No. 67071-1**

Manufactured By/For: Thor GmbH
D-67346 Speyer, Germany
Tel. (06232) 6360

U.S. Office: Thor Specialties, Inc.
50 Waterview Drive, Shelton,
CT 06484 USA
Tel. (203) 516-6980
# ACTICIDE® MV INFORMATION SHEET

**THOR**

**DIRECTIONS FOR USE**

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## METAL CLEANING FLUID PRESERVATION

ACTICIDE® MV microbiocide is recommended as a preservative for use in the manufacture and use of alkaline, acid and emulsion based metal cleaning fluids typically used in electroplating, phosphatizing, galvanizing and general metal cleaning operations.

The preservative should be dispersed into the use-dilution metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.

For addition to a metal cleaning concentrate, add ACTICIDE® MV microbiocide at a level to ensure that the final use-dilution fluid will contain 560 to 2250 ppm product. A higher dosage rate and/or increased frequency of treatment may be required depending upon the rate of dilution of the preservative with make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

For direct addition to a fouled system:

- 72 to 290 FL OZ (5 to 20 LB) per 1000 GAL of use-dilution metal cleaning fluid every 3 to 4 weeks
- (560 to 2250 ppm ACTICIDE® MV)

## PRESERVATIVE FOR ADHESIVES AND TACKIFIERS

ACTICIDE® MV 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® MV microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.

For storage at high temperatures and humidity, or for highly susceptible systems, use up to 0.3% (3.0 LB per 1000 LBS formulation).

### Formulation:

- 0.05 – 0.165%
- 0.5 – 1.65 LB per 1000 LBS

## DISPERSED PIGMENT PRESERVATION

ACTICIDE® MV 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, dispersed colorants and kieselguhr used in paint and paper production.

### Formulation:

- 0.06 – 0.225%
- 0.6 – 2.25 LB per 1000 LB fluid
- 250 – 1020 grams per 453 KG of fluid

## PRESERVATIVE FOR BUILDING MATERIALS

ACTICIDE® MV 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.

### Formulation:

- 0.05 – 0.165%
- 0.5 – 1.65 LB per 1000 LB of fluid

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**ACTICIDE® MV**

**INFORMATION SHEET**

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<table>
<thead>
<tr>
<th>PRESERVATIVE FOR LATICES, POLYMER EMULSIONS OR SOLUTIONS</th>
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</thead>
<tbody>
<tr>
<td>ACTICIDE® MV microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including: acryls, 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.</td>
</tr>
<tr>
<td><strong>Note:</strong> To insure uniform mixing, add ACTICIDE® MV microbiocide 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.</td>
</tr>
<tr>
<td>0.05 – 0.33% 0.5 – 3.3 LB per 1000 LB emulsion 227 g – 1.5 KG per 454 KG of emulsion</td>
</tr>
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<table>
<thead>
<tr>
<th><em>PRESERVATIVE FOR AQUEOUS COMPOSITIONS</em></th>
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</thead>
<tbody>
<tr>
<td>ACTICIDE® MV microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as:</td>
</tr>
<tr>
<td><em>fiber glass sizing solutions</em></td>
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<tr>
<td><em>aqueous emulsions and dispersions including surfactants</em></td>
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<tr>
<td><em>stabilized oil/water emulsions</em></td>
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<tr>
<td><em>surface preparation compounds</em></td>
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<tr>
<td><em>foam control products</em></td>
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<tr>
<td><em>nutrient solutions</em></td>
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<tr>
<td><em>pesticide formulations.</em></td>
</tr>
<tr>
<td><strong>CONCENTRATES:</strong></td>
</tr>
<tr>
<td>ACTICIDE® MV microbiocide should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.05 to 0.33% ACTICIDE® MV.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS</th>
<th>0.04 – 0.15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the control of bacteria and fungi in liquid and solid soaps, liquid and solid cleaners, liquid and solid detergents, liquid and solid laundry products, liquid and solid dishwashing detergents, waxes, polishes, liquid and solid fabric treatment/refresher products, liquid and solid air fresheners/deodorizers, car care products, and other similar cleaners. ACTICIDE® MV may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE® MV 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® MV 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® MV microbiocide.</td>
<td>0.4 – 1.5 LB per 1000 LB product</td>
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<tr>
<td></td>
<td>180 – 680 grams per 453.6 KG product</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PRESERVATIVE FOR PAINTS AND COATINGS</th>
<th>0.05 – 0.165%</th>
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</thead>
<tbody>
<tr>
<td>ACTICIDE® MV 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. For storage during high temperatures and humidity or for highly susceptible systems.</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>
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*Specifically for a wood coating, ACTICIDE® MV is recommended for the protection of wood and wood products such as landscape timbers, fences, posts, pilings, cross ties, decks and similar exterior structures, from mold and mildew. As a pressure treatment for mold and mildew control for southern yellow pine, hemlock, ponderosa pine and other soft woods. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

Under extreme moldew conditions. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

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1.9 – 6.6 LB per 1000 GAL preservative
(29 – 101 FL OZ per 1000 GAL)
267 – 840 ppm of ACTICIDE® MV

13.25 – 26.5 LB per 1000 GAL wood treatment solution
(1.6 – 3.2 GAL per 1000 GAL)
1600 – 3200 ppm of ACTICIDE® MV

*Special purpose coating uses

Use as a preservative for:
- Electrodeposition paints or solutions
- Photo/photoplatting 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.

The application/addition directions for these special purpose coating uses are:
**PHOTO/PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS**

ACTICIDE® MV microbiocide is recommended for the control of bacteria, fungi, and biofilms in photo/photoplate processing chemicals, stabilizing solutions, fountain solutions, printing inks and ink components. ACTICIDE® MV is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® MV 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.

**CONCENTRATES:**

ACTICIDE® MV should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.1 to 0.33% ACTICIDE® MV.

To ensure uniform mixing add ACTICIDE® MV microbiocide to the product slowly with agitation. The actual concentration required will depend upon the specific substance to be treated, frequency of repeated contamination expected and level of protection required.

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**ELECTRODEPOSITION**

ACTICIDE® MV 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® MV microbiocide may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.
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Tankside Addition to Electrodeposition Systems:
ACTICIDE® MV 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® MV microbiocide (6.5 to 22.5 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.
When microbial control is evident, add 320 to 1000 ppm ACTICIDE® MV microbiocide (3.2 to 10 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.

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*TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS
Initial Dose of Paint Components:
ACTICIDE® MV 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 320 to 2245 ppm product.

Supplemental Tanked Dosing of Electrodeposition System:
If additional microbial control is necessary, ACTICIDE® MV 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® MV microbiocide (6.5 to 22.5 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 320 to 1000 ppm ACTICIDE® MV microbiocide (3.2 to 10 gallons per 10,000 gallons of fluid in the system) weekly or as needed.

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NOTE: Regardless of the manner of incorporation, the total level in the system should never exceed 2245 ppm ACTICIDE® MV or 22.5 gallons per 10,000 gallons of system fluid.