Precautionary Statements:
Hazards to Humans and Domestic Animals

DANGER
CORROSIVE. CAUSES INEVOCABLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. 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.

Personal Protective Equipment (PPE):
- Mirrors, Leaders, and others exposed to product 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:
- Wash hands before eating, drinking, or using tobacco, or using the toilet.
- Wash thoroughly and put on clean clothing 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.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to aquatic plants, fish, and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, ditches, canals, 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.

UN 3295, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Physical and Chemical Hazards:
This product is corrosive to mild steel.

STORAGE AND DISPOSAL
Do not store or transport in unlabeled metal containers. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Pesticide Disposal:
Pesticide wastes are hazardous. Improper disposal of excess pesticide or container is a violation of Federal Law. It 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 DISPOSAL
Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Rinse as follows: [For containers > 5 gallons in size]:
- Empty the remaining contents into an 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 reseal. 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 an application equipment or a mix tank, fill the container 1/4 full with water. Reuse and tighten closure. 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 end. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

General: Consult Federal, State or Local Disposal Authorities for Approved Alternative Procedures.

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

Industrially microbiocides for use in metal wetting fluids, metal cleaning fluids, hydraulic fluids, solvents, textilizers, discerned pigments, paints, building materials, polymer latices, "aqueous compositions" and liquid soaps, cleaners, etc. Can cause corrosion for industrial and household uses and in polishes and waxes 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 these uses in the State of California.

CONDITIONS OF SALE AND LIABILITY

This product conforms to safe chemical description and is reasonably fit for the purpose stated and the sale is made only when such statements are accepted by the normal conditions of sale. THOR GMBH MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. If handling, storage and use of the product by Buyer or User are beyond the control of Thor GmbH and/ or THOR GMBH, then the User shall be responsible for all losses and damages resulting from the handling, storage, or use of this product.

EPA Reg. No. 67071-10
Manufacturer Bytfor: Thor GmbH
EPA Est. No. 67071-001
Thor Specialty, Inc.
D-A7/SMS Sonspurger, Germany
59 Waterlax Drive, Shelton, CT 06484
Tel: (0323) 502630
Tel: (203) 516-0660

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

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

DIRECTIONS FOR USE

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® RS microbiocide is recommended for the control of bacteria and fungi in aqueous metal working fluid solutions and emulsions.</td>
</tr>
<tr>
<td>The preservative should be dispensed into the use dilution of the metal working fluid using a metering pump and uniformly dispersed throughout the system.</td>
</tr>
<tr>
<td>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>
</tr>
<tr>
<td>32 FL OZ (2 LB) per 1000 GAL of emulsion every 4 weeks</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRESERVATIVE FOR ADHESIVES AND TACKIFIERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® RS 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.</td>
</tr>
<tr>
<td>ACTICIDE® RS microbiocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.</td>
</tr>
<tr>
<td>For storage during extremely high temperatures and humidity, use up to 0.3% (3.0 lb per 1000 lbs formulation).</td>
</tr>
<tr>
<td>0.05 – 0.165%</td>
</tr>
<tr>
<td>0.5 – 1.65 LB per 1000 LBS formulation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WATER-BASED HYDRAULIC FLUID PRESERVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® RS 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.</td>
</tr>
<tr>
<td>For a noticeably fouled system use an initial dose of 150 to 250 fluid ounces (12 to 20 lb) per 1000 gallons fluid to be followed by subsequent maintenance dosage. A higher dosage rate 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.</td>
</tr>
<tr>
<td>120 to 150 FL OZ (10 to 12 LB) per 1000 GAL of fluids every 8 weeks</td>
</tr>
</tbody>
</table>

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EPA Reg. No. 67071-10
Manufactured By/For: Thor GmbH
D-67348 Speyer, Germany
Tel. (06232) 6580
U.S. Office: Thor Specialties, Inc.
50 Waterview Drive, Shelton, CT 06484 USA
Tel. (203) 516-6980
### Dispersed Pigment Preservation

ACTICIDE® RS 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.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06 – 0.225%</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>
</tbody>
</table>

### Metal Cleaning Fluid Preservation

ACTICIDE® RS 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 electropolishing, 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® RS 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 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 (6 to 23 LB) per 1000 GAL of use-dilution metal cleaning fluid every 3 to 4 weeks
- (560 to 2250 ppm ACTICIDE® RS)

### Preservative for Building Materials

ACTICIDE® RS 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.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05 – 0.165%</td>
<td>0.5 – 1.65 LB per 1000 LB of fluid</td>
</tr>
</tbody>
</table>

### Preservative for Latexes

ACTICIDE® RS 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.

**Note:** To insure uniform mixing, add ACTICIDE® RS 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.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Description</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>
**ACTICIDE® RS**

**INFORMATION SHEET**

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

**DIRECTIONS FOR USE**

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

### PRESERVATIVE FOR PAINTS AND COATINGS

ACTICIDE® RS 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.

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

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Application Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>0.05 – 0.165%</strong></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><strong>Up to 0.3%</strong></td>
<td>3.0 LB per 1000 LB fluid</td>
</tr>
</tbody>
</table>

*Specifically as a wood coating, ACTICIDE® RS 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 mildew conditions. Thoroughly wet and allow to dry. A single application will afford protection for 12 weeks.

*Not approved for this use in the State of California

### Special purpose coating uses

Use as a preservative for:

- Electrodeposition paints or solutions
- Photoplasting 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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*PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS*

ACTICIDE® RS microbiocide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE® RS is recommended for water-based printing inks such as flexographic, gravure, screen and ink-jet types. ACTICIDE® RS 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® RS should be added to 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*

*PRESERVATIVE IN SPIN FINISH COATINGS FOR FIBERS*

ACTICIDE® RS microbiocide is recommended for the control of bacteria and algae in spin finish coating solutions used to coat fibers. ACTICIDE® RS should be dispensed into the spin finish coating system at a point to ensure uniform mixing. It should be added to achieve the recommended dosage range of 0.05% to 0.5% on a total weight basis, with the optimum level used if fouling becomes noticeable.

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

*ELECTRODEPOSITION*

ACTICIDE® RS 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® RS 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® RS 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® RS 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® RS 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*
ACTICIDE® RS
INFORMATION SHEET

THOR

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*TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS

Initial Dose of Paint Components:

ACTICIDE® RS 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® RS 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® RS 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® RS 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® RS or 22.9 gallons per 10,000 gallons of system fluid.

NOTE: To insure uniform mixing, add ACTICIDE® RS 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.

*INDUSTRIAL PROCESS WASH WATER

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

*PRESERVATIVE FOR AQUEOUS COMPOSITIONS

ACTICIDE® RS 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:

* surfactants
* stabilized oil/water emulsions
* surface preparation compounds
* foam control products
* nutrient solutions
* pesticide formulations.

CONCENTRATES:

ACTICIDE® RS 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 0.05 and 0.33% ACTICIDE® RS microbiocide.

*Not approved for this use in the State of California

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Tel. (203) 516-6980

Information Sheet # 010-1 V002 – 05/02/2014
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# ACTICIDE® RS INFORMATION SHEET

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**DIRECTIONS FOR USE**

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

---

**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® RS may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.

ACTICIDE® RS 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® RS 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® RS microbiocide.

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**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® RS may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops.

ACTICIDE® RS 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® RS 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® RS microbiocide.

---

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