**ACTICIDE® 14**

**ACTIVE INGREDIENTS:**
- 5-Chloro-2-methyl-4-isothiazolin-3-one .............................................. 18.60%
- 2-Methyl-4-isothiazolin-3-one .......................................................... 3.00%
- OTHER INGREDIENTS ............................................................... 88.40%
- TOTAL ................................................................. 100.00%

**ACTICIDE® 14 microcide dose weights 16.4 lb. per gallon**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER - PELIGRO**

See Skin irritation for additional precautions statements.

**FIRST AID**

**In Eyes:**
- Hold eye open and rinse slowly with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**If Swallowed:**
- Call a poison control center or doctor for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

**If Inhaled:**
- Remove person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

**Ingestion:**
- Call a poison control center or doctor for further treatment advice.

**Precautionary Statements:**

**Hazard to Humans and Domestic Animals**

**DANGER**

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Avoid contact with skin or eyes. Do not use on or around food or food-contact surfaces. Keep out of reach of children.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**
- Mixers, loaders, and other exposed to methylisothiazolones must wear:
  - Gloves over long-sleeved shirt and long pants
  - Boots and chemical resistant footwear
  - Goggles or face shield

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See Skin irritation for additional precautions statements.

**FIRST AID**

**In Eyes:**
- Hold eye open and rinse slowly with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**If Swallowed:**
- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

**If Inhaled:**
- Remove person to fresh air.
- Call a poison control center or doctor immediately for treatment advice.

**Ingestion:**
- Call a poison control center or doctor for further treatment advice.

**Precautionary Statements:**

**Hazard to Humans and Domestic Animals**

**DANGER**

Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Avoid contact with skin or eyes. Do not use on or around food or food-contact surfaces. Keep out of reach of children.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**
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  - Boots and chemical resistant footwear
  - Goggles or face shield

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

See Skin irritation for additional precautions statements.

**FIRST AID**

**In Eyes:**
- Hold eye open and rinse slowly with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**If Swallowed:**
- Call a poison control center or doctor for treatment advice.

**If Ingested:**
- Call a poison control center or doctor immediately for treatment advice.

**Inhalation:**
- Remove person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

**Ingestion:**
- Call a poison control center or doctor for further treatment advice.

**Notes to physician:**
- Probable mucosal damage may contraindicate the use of gastric lavage.
METAL WORKING FLUIDS:
ACTICIDE® 14 microbiocide is recommended for the control of bacteria and fungi in soluble and emulsifiable type 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.

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 a noticeably fouled system:
7 to 16 FL OZ (0.6 to 1.3 LB) per 1000 GAL of emulsion.
(55 to 125 ppm ACTICIDE® 14)
Repeat until control is achieved.

When control is evident:
3.5 FL OZ (0.3 LB) per 1000 GAL of emulsion every 4 weeks.
(27 ppm ACTICIDE® 14)

METAL CLEANING FLUIDS:
ACTICIDE® 14 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 dispensed into the use dilution of the metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.

A higher dosage range and/or increased frequency of treatment may be required depending on the rate of dilution of the preservative with the make up fluid, the nature and severity of the contamination, level of control required, filtration effectiveness, system design, etc.

CONCENTRATES:
For addition to a metal cleaning concentrate, add ACTICIDE® 14 microbiocide at a level to ensure that the final use-dilution fluid will contain 56 to 225 ppm product.

For direct addition to a fouled system:
7.2 to 29 FL OZ (0.6 to 2.3 LB) per 1000 GAL of use-dilution metal cleaning fluid every 3-4 weeks to provide 56 to 225 ppm product.
**ACTICIDE® 14**

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### WATER-BASED HYDRAULIC FLUIDS:

ACTICIDE® 14 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.

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.

**For a noticeably fouled system:**

- 15 to 25 FL OZ (1.2 to 2.0 LB) per 1000 GAL of fluid
- (117 to 195 ppm ACTICIDE® 14) every 8 weeks to be followed by subsequent maintenance dosage

**For non-fouled system maintenance:**

- 12 to 15 FL OZ (1.0 to 1.2 LB) per 1000 GAL of fluid every 8 weeks
- (94 to 117 ppm ACTICIDE® 14)

### DISPERSED PIGMENTS AND *COLORANTS:*

ACTICIDE® 14 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 coatings.

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

**0.006 – 0.0225%**

- 0.06 – 0.225 LB per 1000 LB fluid
- 25 – 102 grams per 454 kg fluid
  (60 to 225 ppm ACTICIDE® 14)

### ADHESIVES AND TACKIFIERS:

ACTICIDE® 14 microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesive such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene and acrylic latices.

**0.006 – 0.022%**

- 0.06 – 0.22 LB per 1000 LB fluid
- 25 – 102 grams per 454 kg fluid
  (60 to 220 ppm ACTICIDE® 14)
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<table>
<thead>
<tr>
<th>WOOD AND WOOD PRODUCTS:</th>
<th>0.027 – 0.086 GAL (3.4 to 11 FL OZ) per 1000 GAL of solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 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. Treat pressure-treatment solution in the pressure treating process for mold and mildew control. Under extreme mildew conditions, ACTICIDE® 14 may be used up to a maximum concentration of 343 ppm product (33 fluid ounces ACTICIDE® 14 per 1000 gallons of treatment solution). This application will afford protection up to 12 weeks and during repeated use of solution. ACTICIDE® 14 may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 343 ppm ACTICIDE® 14.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><em>For the control of blue stain, mold and decay of freshly cut lumber and logs:</em></th>
<th>1 GAL per 3500 GAL of water (286 ppm ACTICIDE® 14)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treat lumber immediately after it is sawn. Freshly dipped or sprayed lumber must be protected from rain. Dip tanks and drip aprons must be roofed, paved and drained to prevent dilution and loss of stain solution. Antistain treatment concentrations must be geared to achieve protection of the thickest or most valuable item being treated. The concentration of the ready-to-use antistain solution must be adjusted to accommodate seasonal changes in the exposure and species being treated. Dip tanks and spray equipment and metering equipment must be properly maintained. Lumber and logs must be totally immersed or sprayed to ensure all surfaces are treated. Ensure good mixing prior to and during the treatment process.</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>PAINTS AND COATINGS:</th>
<th>0.006 – 0.022%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in water based coatings such as paper and wood coatings and paints used for architectural product finishes and special purpose coatings. A higher dosage rate providing up to 45 ppm active ingredients may be required for storage during extremely high temperatures and humidity.</td>
<td>0.06 – 0.22 LB per 1000 LB fluid</td>
</tr>
<tr>
<td></td>
<td>25 – 102 grams per 454 kg fluid (60 to 220 ppm ACTICIDE® 14)</td>
</tr>
<tr>
<td>Specifically as a wood coating, ACTICIDE® 14 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.</td>
<td>0.2 – 0.7 LB (3.4 – 11 FL OZ) per 1000 GAL preservative (27 – 86 ppm of ACTICIDE® 14)</td>
</tr>
<tr>
<td>Under extreme mildew conditions: ACTICIDE® 14 may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 330 ppm ACTICIDE® 14.</td>
<td>1.4 – 2.7 LB (17 – 33 FL OZ) per 1000 GAL preservative (160 – 330 ppm of ACTICIDE® 14)</td>
</tr>
</tbody>
</table>

*Special purpose coating uses

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

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

*ELECTRODEPOSITION

ACTICIDE® 14 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® 14 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® 14 microbiocide should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing.
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

*For a noticeably fouled system:
71 to 245 ppm (0.7 to 2.5 GAL per 10,000 GAL of fluid). Repeat until control is achieved.

*When control is evident:
35 to 105 ppm (0.35 to 1.1 GAL per 10,000 GAL of fluid) weekly or as needed.

*TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS

Initial Dose of Paint Components:
ACTICIDE® 14 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 35 to 245 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® 14 microbiocide may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components.
*Not approved for this use in the State of California

NOTE: To ensure uniform mixing, add ACTICIDE® 14 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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<thead>
<tr>
<th><strong>PHOTOPlate PROCESSING, FOuNTAIN SOLUTIONS, AND INK/INK COMPONENTS</strong></th>
<th><strong>0.01 – 0.035%</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 microbiocide is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. ACTICIDE® 14 is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. ACTICIDE® 14 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. A level adjustment may be necessary to accommodate slight changes in solution formulations. <strong>CONCENTRATES:</strong> ACTICIDE® 14 should be added to concentrates at a level to ensure that the final use dilution of the product will contain 0.035% ACTICIDE® 14. To ensure uniform mixing add ACTICIDE® 14 microbiocide to the product slowly with agitation. <em>Not approved for this use in the State of California</em></td>
<td>0.1 to 0.35 LB per 1000 LB formulation (100 to 350 ppm ACTICIDE® 14)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>BUILDING MATERIALS:</strong></th>
<th><strong>0.005 – 0.0225%</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, concrete admixtures, spackling and grouting.</td>
<td>0.05 – 0.225 LB per 1000 LB fluid (50 to 225 ppm ACTICIDE® 14)</td>
</tr>
</tbody>
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<tr>
<th>LATTICES, POLYMER EMULSIONS OR SOLUTIONS:</th>
<th>0.006 – 0.045%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 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.</td>
<td>0.06 – 0.45 LB per 1000 LB fluid</td>
</tr>
<tr>
<td>CONCENTRATES:</td>
<td>25 – 205 grams per 454 kg fluid</td>
</tr>
<tr>
<td>ACTICIDE® 14 microbiocide may be added to the above products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will not exceed the concentration indicated.</td>
<td>(80 to 450 ppm ACTICIDE® 14)</td>
</tr>
</tbody>
</table>

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<tr>
<th>AQUEOUS COMPOSITIONS:</th>
<th>0.005 – 0.035%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTICIDE® 14 microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as:</td>
<td>0.05 – 0.35 LB per 1000 LB aqueous product</td>
</tr>
<tr>
<td>*fiberglass sizing solutions</td>
<td>(50 to 350 ppm ACTICIDE® 14)</td>
</tr>
<tr>
<td>*aqueous emulsions and dispersions including</td>
<td></td>
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<tr>
<td>*stabilized oil/water emulsions</td>
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<tr>
<td>*surface preparation compounds</td>
<td></td>
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<tr>
<td>*foam control products</td>
<td></td>
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<tr>
<td>*nutrient solutions</td>
<td></td>
</tr>
<tr>
<td>*pesticide formulations.</td>
<td></td>
</tr>
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</table>

*Not approved for this use in the State of California*
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<thead>
<tr>
<th>LIQUID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS</th>
<th>0.004 – 0.016%</th>
</tr>
</thead>
<tbody>
<tr>
<td>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® 14 may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE® 14 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® 14 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 40 to 160 ppm ACTICIDE® 14 microbiocide.</td>
<td>0.04 – 0.16 LB per 1000 LB product</td>
</tr>
</tbody>
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<tr>
<th><strong>SEMI-SOLID/SOLID HOUSEHOLD, CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS</strong></th>
<th><strong>0.004 – 0.016%</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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® 14 may also be used for the control of bacteria and fungi in package utility products such as pre-moistened sponges and mops. ACTICIDE® 14 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® 14 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 40 to 160 ppm ACTICIDE® 14 microbiocide.</td>
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</table>

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<tr>
<th><strong>INDUSTRIAL PROCESS WATER:</strong></th>
<th><strong>0.005 – 0.035%</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Process wash waters: recommended for the control of bacteria and fungi in the storage of process wash water during the manufacture of adhesives and tackifiers; paints and coatings; photoplate processing, fountain solutions, and ink / ink components; building materials; latices, polymer emulsions or solutions; aqueous compositions; liquid household, consumer, industrial, janitorial products; semi-solid / solid household, consumer, industrial, janitorial products. <em>Not approved for this use in the State of California</em></td>
<td>0.05 – 0.35 LB per 1000 LB wash water (50 to 360 ppm ACTICIDE® 14)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OIL FIELD INJECTION WATERS:</strong></th>
<th><strong>2.5 – 6.1 LB (0.29 to 0.7 GAL) per 1000 barrels of water</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>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 6.1 to 12.4 lb ACTICIDE® 14 per 1000 barrels of water (17.4 to 34.8 ppm ACTICIDE® 14) may be used until control is achieved. This product may be used for terrestrial and offshore oil drilling muds and packer fluids.</td>
<td>(7.1 to 17.5 ppm ACTICIDE® 14)</td>
</tr>
</tbody>
</table>
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<thead>
<tr>
<th><strong>PAPERMILLS:</strong></th>
<th>0.048 – 0.16 LB per ton (dry basis) of pulp or paper produced as slug dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>For the control of bacterial and fungal slime in the production of paper. ACTICIDE® 14 should be added to a point such as the Beater or Hydropulper to ensure uniform mixing. <em>Not approved for this use in the State of California</em></td>
<td></td>
</tr>
<tr>
<td><strong>INDUSTRIAL RECIRCULATING WATER COOLING TOWER:</strong></td>
<td>0.032 – 0.196 LB per 1000 GAL water (3.7 to 23 ppm ACTICIDE® 14) weekly or as needed for maintenance</td>
</tr>
<tr>
<td>ACTICIDE® 14 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. For noticeably fouled systems use an initial dose of 0.13 to 0.79 lb ACTICIDE® 14 per 1000 gallons of water. Repeat if necessary to achieve control.</td>
<td></td>
</tr>
<tr>
<td><strong>AIR WASHER SYSTEMS / PAINT SPRAY BOOTHs:</strong></td>
<td>0.032 – 0.79 LB per 1000 GAL of water (2.7 to 93.6 ppm ACTICIDE® 14)</td>
</tr>
<tr>
<td>For use only in industrial air washing systems that maintain effective mist eliminating components. Add to water 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. <em>Not approved for this use in the State of California</em></td>
<td></td>
</tr>
<tr>
<td><strong>INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS AND PROCESS WATER SYSTEMS:</strong></td>
<td>0.032 – 0.196 LB per 1000 GAL water weekly (3.7 to 23 ppm ACTICIDE® 14)</td>
</tr>
<tr>
<td>To maintain control of bacteria, fungi and algae. Add to water in the reservoir, recirculating line or some other point to ensure uniform mixing. For noticeably fouled systems an initial treatment with 0.13 to 0.79 lb ACTICIDE® 14 per 1000 gallons of water may be needed depending on the severity of the fouling.</td>
<td></td>
</tr>
<tr>
<td><strong>BREWERY PASTEURIZERS AND CAN WARMER SYSTEMS:</strong></td>
<td>0.032 – 0.196 LB per 1000 GAL water (3.7 to 23 ppm ACTICIDE® 14) weekly or as needed for maintenance</td>
</tr>
<tr>
<td>To maintain control of bacteria, algae and fungi. For noticeably fouled systems an initial treatment with 0.13 to 0.79 lb ACTICIDE® 14 per 1000 gallons of water may be needed depending on the severity of the fouling. NOTE: Regardless of the manner of incorporation, the total level should never exceed 248 ppm ACTICIDE® 14 or 2.5 gallons per 10,000 gallons of system fluid. <em>Not approved for this use in the State of California</em></td>
<td></td>
</tr>
</tbody>
</table>

EPA Reg. No. 67071-5
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) 516-6680

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### ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS

ACTICIDE® 14 microbiocide is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems.

1 - 35 ppm ACTICIDE® 14

Add into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of ACTICIDE® 14 microbiocide with reverse osmosis membranes should be confirmed with membrane manufacturers.

For the control of bacteria and fungi in carbon beds.

For periodic membrane cleaning.

Badly fouled systems should be cleaned before treatment is begun.

*Not approved for this use in the State of California

### INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS:

ACTICIDE® 14 microbiocide is recommended for the control of microbial biofilms, bacteria, fungi, and algae in industrial waste water treatment and sewage systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

**INITIAL DOSE:**

When the system is noticeably fouled, apply ACTICIDE® 14 as indicated. Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

0.13 - 0.78 LB or 2 - 12 FL OZ per 1000 GAL of water in the system
(15.5 to 93 ppm ACTICIDE® 14)

**SUBSEQUENT DOSE:**

When microbial control is evident, add ACTICIDE® 14 weekly or as needed to maintain control.

0.03 - 0.2 LB or 0.45 - 3 FL OZ per 1000 GAL of water in the system
(3.5 to 23 ppm ACTICIDE® 14)

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THIS ACTICIDE® 14 INFORMATION SHEET MUST ACCOMPANY EACH SHIPMENT OF ACTICIDE® 14

DIRECTIONS FOR USE

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

*FUELS AND OILS:

ACTICIDE® 14 is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, aviation fuels, kerosene, heating oils, diesel fuels, residual fuel oils, coal slurries, liquefied petroleum gases and petrochemical feedstocks. ACTICIDE® 14 is recommended for REFINERY AND TERMINAL USE ONLY. ACTICIDE® 14 should be directly dispensed into a fuel tank, storage tank or a flowing stream of fuel in a manner to ensure uniform distribution of the preservative in the fuel system. Slug dose or continuous feed methods are recommended.

A shock dose of up to 42 gallons of ACTICIDE® 14 per 1 million gallons of fluid is recommended in the case of extreme contamination. Grossly contaminated systems should be physically cleaned to remove debris.

FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.

*Not approved for this use in the State of California

For a noticeably fouled system:

11 to 21 GAL per 1 million GAL of fluid.

(11 to 21 ppm ACTICIDE® 14)

Repeat until control is achieved.

Maintenance dose:

5 – 16 GAL per 1 million GAL of fluid

(5 to 16 ppm ACTICIDE® 14)

Repeat every 4 – 6 weeks or when microbial contamination is detected.