

THOR

**ACTICIDE® MV14**

**INDUSTRIAL MICROBIOCIDE  
Solution**

An Industrial Microbiocide for use in polymer latices, paints, coatings, inks, adhesives, building materials (caulks and sealants), metalworking fluids, fuels, wood, electrodeposition systems, papermill slimicide, industrial recirculating water cooling towers, oil field injection waters.

**COMMERCIAL**

**ACTIVE INGREDIENTS:**

5-Chloro-2-methyl-4-isothiazolin-3-one.....10.6%  
2-Methyl-4-isothiazolin-3-one..... 3.5%

**KEEP OUT OF REACH OF CHILDREN**

**READ THE LABEL BEFORE USING**

**POTENTIAL SKIN SENSITIZER**

**REGISTRATION NO. 29516**

**PEST CONTROL PRODUCTS ACT**

**DANGER**



**POISON**



**CORROSIVE TO EYES AND SKIN**

NET CONTENTS: 10-200 kg.

BATCH NO.:

MANUFACTURING DATE:

THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE weighs 1.25 Kg/Litre  
ACTICIDE® is a registered trademark of Thor Specialties, Inc.

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## **DIRECTIONS FOR USE**

### **PRESERVATIVE FOR PAINTS AND COATINGS**

THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE is recommended for the control of bacteria and fungi in water-based coatings and dispersed pigments, and for aqueous paints used for architectural purposes.

Add 44 to 180 grams of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE to each 1000 kg of emulsion to provide 6.5 to 25 ppm active isothiazolone ingredients. A higher dosage rate of up to 360 g per 1000 kg, providing up to 50 ppm active ingredients, may be required for storage during extremely high temperatures and humidity.

### **PRESERVATIVE FOR ADHESIVES, INKS, AND BUILDING MATERIALS**

THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE is also recommended as an in-container preservative in industrial products – caulks, joint cements, concrete additives, inks and slurries.

Add 44 to 360 grams of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE to each 1000 kg of product to provide 6.5 to 50 ppm active isothiazolones.

### **PRESERVATIVE FOR LATICES**

THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE is recommended for the control of bacteria in the manufacture and storage of synthetic and natural polymer latices – acrylics, styrene/butadiene, carboxylated styrene/butadiene, ethylene/vinyl acetate, starches and derived polymers.

Add 44 to 360 grams of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE to each 1000 kg of emulsion to provide 6.5 to 50 ppm active isothiazolones.

NOTE: The actual concentration of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE required will depend upon such factors as specific substance to be treated, frequency of repeated microbial contamination expected and level of protection required. To ensure uniform mixing and in order to prevent localized shock to latex materials, it is advantageous to dilute THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE ten fold with water before slowly adding to the latex with agitation as early as possible during the production process.

**PRESERVATIVE FOR METAL WORKING FLUIDS:** ACTICIDE® MV14 Industrial Microbiocide is recommended for soluble and emulsifiable type aqueous metalworking fluids, such as emulsified petroleum oils, and formulations containing alcoholic fatty acid, sulfonated red oil, or naphthalene sulfonate. These fluids are usually prepared by diluting the product concentrates 1:40 to 1:60 with water. For the maintenance of a nonfouled system, add 23.6 mL per 1000 L of emulsion or 23.6 mL – 107 mL every 8-12 weeks. For a noticeably fouled system use initial dosage range of 46.1 mL – 107 mL L followed by a subsequent dosage depending upon the treatment level above. A higher dosage range and/or increased frequency of treatment may be required depending on rate of dilution of the preservative with makeup fluid, the nature of severity of contamination, level of control required, filtration effectiveness, system design, etc.

The preservative should be dispensed into the use-dilution of the metalworking fluid by a metering pump and uniformly dispersed throughout the system.

**PRESERVATIVE FOR FUELS:** ACTICIDE® MV14 Industrial Microbiocide is recommended for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: liquefied petroleum gases, aviation fuels, petrochemical feedstocks, kerosene, heating oils, diesel fuels, residual fuel oils and coal slurries.

Add ACTICIDE® MV14 Industrial Microbiocide at 8 kilos to 24 kilos per 1 million kilos of total system (fuel and water) depending on degree of fouling. FOR USE IN AVIATION FUEL, THE FEDERAL AUTHORITIES MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFTS.

**PRESERVATIVE FOR WOOD AND WOOD PRODUCTS:** THOR ACTICIDE® MV14 Industrial Microbiocide, tank-mixed with CCA is recommended for the protection of the wood when used on wood and wood products such as landscape timbers, fences, posts, piling, crossties, deck and similar structures from mould and mildew degradation.

Add 7.5 ppm to 12 ppm of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE (7.5 ml to 12 ml per 1000 litres, or 9.4 grams to 15 grams per 1000 litres) in the CCA dilute solution in the pressure treating process for mould and mildew control. Under extreme mold and mildew conditions the addition of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE may be used up to a maximum concentration of 30 ppm (30 ml per 1000 litres, or 37.5 grams per 1000 litres).

Wood and/or wood product should be thoroughly wet and allow to dry. This application will afford protection for 12 weeks.

For further information on storage, handling, use, and disposal of treated wood, contact the manufacturer of this product or the provincial regulatory agency.

**PRESERVATIVE FOR ELECTRODEPOSITION SYSTEMS:** THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE is recommended for the control of bacteria, fungi and algae in recirculating electrodeposition systems and associated rinse systems.

THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE should be dispensed into the circulating rinse system ultrafilter permeate or final distilled water rinse at a point to ensure uniform mixing.

When the system is noticeably fouled, add 270 to 936 ppm THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE (12.7 to 43.6 L) per 10,000 Litres of fluid in the system. Repeat until control is achieved.

When microbial control is evident, add 135 to 402 ppm THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE (5.1 to 14.6 L) per 10,000 Litres of fluid in the system weekly or as needed to maintain the system. A change of frequency of treatment may be required depending upon 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.

**PAPERMILL SLIMICIDE, INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND OIL FIELD INJECTION WATERS:**

**PULP & PAPER:** THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDE is recommended for the control of bacterial and fungal slime in the production of paper. THOR

ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES should be added at a point in the system to insure uniform mixing such as the Beater, Hydropulper Fan or Broke Storage Pump. Add 0.02 to 0.09 kg of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES as supplied per tonne (dry basis) of pulp or paper produced, as a slug dose. If needed, repeat daily. Badly fouled systems should be cleaned before initial treatment.

**COOLING TOWERS:** THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES is recommended for removal of slime from fouled towers. THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES should be added to the basin, to the distribution boxes, or at any other point where it will be rapidly and uniformly dispersed throughout the system. Add 0.036 to 1.0 kg of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES as supplied per 10 tonnes of water in the system. This dosage should be repeated 2 to 3 times per week until fouling has been reduced to an acceptable level.

**AIR WASHER SYSTEMS:** THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES is recommended for the control of bacteria, fungi and algae which cause fouling in industrial air washer systems. For use only in industrial air washing systems that maintain effective mist eliminating components. Add to the air washer sump or chill water sump to ensure uniform mixing.

Add 0.45 to 1.76 kg of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES per 10,000 liters of water in the system, depending on the severity of contamination. Badly fouled systems must be cleaned before initial treatment.

**OIL FIELD INJECTION WATERS:** THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES is recommended for the control of slime-forming bacteria and sulphate-reducing (sulphide-forming) bacteria in oil field injection waters.

Slug treat with 6 to 29 ppm of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES as supplied depending on the severity of bacterial contamination.

Add 14 to 29 ppm of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES as supplied (1.42 to 2.85 litres per 100 tonnes of water) at any point from which the material mixes uniformly throughout the system. Repeat the treatment after 3 days or as needed to achieve control.

After achieving control, add 6 to 14 ppm of THOR ACTICIDE® MV14 INDUSTRIAL MICROBIOCIDES as supplied (0.57 to 1.42 litres per 100 tonnes of water) every seven days or as needed to maintain control.

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. POTENTIAL SKIN SENSITIZER. MAY CAUSE ALLERGIC SKIN REACTION. DANGER – CORROSIVE TO EYES and CAUSES SKIN BURNS. Do not swallow. MAY BE FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. MAY BE HARMFUL IF INHALED. Avoid breathing vapours and spray mists.

Do not get in eyes, on skin or on clothing. Avoid breathing vapour or mist. Do not swallow. Wash skin thoroughly with soap and water after handling. Remove contaminated clothing and wash separately from other laundry before reuse.

Wear long pants, a long-sleeved shirt, chemical-resistant gloves, a full face NIOSH-approved respirator and a chemical-resistant apron during mixing/loading, clean up and repair.

### ENVIRONMENTAL PRECAUTION

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. Do not contaminate water by cleaning of equipment or disposal of waste. Use only as specified on this label.

Store treated lumber on a roofed drip pad until dripping has ceased. Slope lumber on the drip pad to expedite drainage and to ensure that no puddles remain on the surface of the wood. Contain drippage and other related wastes to prevent release in the environment.

DO NOT expose treated lumber to heavy rains immediately after treatment. DO NOT float treated lumber in lakes, rivers, streams or oceans.

### FIRST AID

**IF SWALLOWED:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**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 centre or doctor for treatment advice.

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

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### TOXICOLOGICAL INFORMATION

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be required.

### STORAGE:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. This product is corrosive to mild steel. Do not store or transport in unlined metal containers.

## **DISPOSAL**

1. Triple or pressure-rinse the empty container. Add the rinsing to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.