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MERGAL®CM1.5

An Industrial Microbiocide for use in Polymer Latices, paints, coatings, inks adhesives,
building materials (caulks, printing fluids, household and consumer products,
metalworking fluids and process water systems

Solution

COMMERCIAL

ACTIVE INGREDIENT:

5-Chloro-2-methyo-4-isothiazolin-3-one	1.14%
2-Methyl-4-isothiazolin-3-one	0.40%

KEEP OUT OF THE REACH OF CHILDREN
READ THE LABEL BEFORE USING

REGISTRATION NO. 31369
PEST CONTROL PRODUCTS ACT

DANGER

CORROSIVE TO EYES AND SKIN

POTENTIAL SKIN SENSITIZER

NET CONTENTS:

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Troy Chemical Company
One Avenue L
Newark, N.J. 07105
U.S. (973)589-2500
Canada (905)760-7902

FIRST AID:

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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off 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: 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 center or doctor for further treatment advice.

Take 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. Treat symptomatically.

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN.

POTENTIAL SKIN SENSITIZER. DANGER: CORROSIVE TO EYES AND SKIN.

MAY CAUSE ALLERGIC SKIN REACTION. Do not get in eyes, on skin or on clothing. Do not swallow. Avoid breathing vapors and spray mists. After handling, immediately remove contaminated clothing, wash skin thoroughly with soap and water and put on clean clothing. Keep and wash contaminated clothing separately from other laundry before reuse. Avoid contamination of food. Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a full-face respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides, during mixing, loading, application, clean-up and repair.

ENVIRONMENTAL PRECAUTIONS:

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.

DIRECTIONS FOR USE:

NOTE: THIS PRODUCT IS NOT TO BE USED IN THE PRODUCTION OF ANY MATERIALS THAT MAY COME INTO CONTACT WITH FOOD

PRESERVATIVE FOR PAINTS AND COATINGS:

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in water-based coatings, dispersed pigments and aqueous paints used for architectural purposes.

Add 460 grams to 1.65 kg of Mergal®CM1.5 Microbiocide to each 1000 kg of emulsion to provide 7 to 25 ppm active isothiazolone ingredients. A higher dosage rate of up to 3.3

kg 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:

Mergal®CM1.5 Microbiocide is also recommended as an in-container preservative in industrial products – mastics, caulks, joint cements, concrete additives, inks, slurries. Add 460 grams to 3.0 kg of Mergal®CM1.5 Microbiocide to each 1000 kg of product to provide 7 to 47 ppm active isothiazolones.

PRESERVATIVE FOR LATICES:

Mergal®CM1.5 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, derived polymers. Add 460 grams to 3.0 kg of Mergal®CM1.5 Microbiocide to each 1000 kg of emulsion to provide 7 to 47 ppm active isothiazolones.

NOTE: The actual concentration of Mergal®CM1.5 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, add the Mergal®CM1.5 Microbiocide slowly to the formulation with agitation as early as possible during the production process.

PRESERVATIVE FOR PRINTING FLUIDS:

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in aqueous printing inks such as flexographic, gravure, screen and ink jet printing inks. Add 400 g – 1670 g of Mergal®CM1.5 Microbiocide to each 1000 kg of fluid to provide 400 to 1670 ppm product (6 – 25 ppm active isothiazolone).

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in the manufacture and storage of printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners. Add 400 g – 1670 g of Mergal®CM1.5 Microbiocide to each 1000 kg of fluid to provide 400 to 1670 ppm product (6 – 25 ppm active isothiazolone).

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in fountain solutions used for lithographic printing operations. Mergal®CM1.5 Microbiocide should only be used in those fountain solution concentrates which are automatically diluted prior to use. Mergal®CM1.5 Microbiocide is also recommended as a preservative for photoplate processing chemicals such as stabilizer solutions. Mergal®CM1.5 Microbiocide should be added to the fountain solution concentrate or processing chemical concentrate at a level to ensure that the final use dilution fluid will contain between 400 – 1670 ppm product (6 – 25 ppm active isothiazolone).

PRESERVATIVE FOR HOUSEHOLD AND CONSUMER PRODUCTS:

Mergal®CM1.5 Microbiocide is recommended as an in-container preservative for the control of bacteria and fungi in industrial and household consumer products in all-purpose cleaners, polishes and anti-tarnish products, solid air fresheners, carpet shampoos and pre-spotters.

Add 377 grams to 1.5 kg Mergal®CM1.5 Microbiocide to each 1000 kg of product to be treated to provide 6 – 23 ppm active isothiazolones.

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in liquid dishwashing detergents, automotive appearance products such as cleaners, wax and polishes and liquid laundry products.

Add 377 grams to 1.0 kg Mergal®CM1.5 Microbiocide to each 1000 kg of product to be treated to provide 6 – 15 ppm active isothiazolones.

To insure uniform distribution, slowly disperse Mergal®CM1.5 Microbiocide into product with agitation. Mix thoroughly until evenly dispersed throughout the product. Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in packaged premoistened sponges and mops.

Add 377 grams to 1.5 kg Mergal®CM1.5 Microbiocide to each 1000 kg of water used to premoisten sponges and mops.

PRESERVATIVE FOR METALWORKING FLUIDS AND CONVEYOR LUBRICANTS:

For non-food plant industrial use only.

Mergal®CM1.5 Microbiocide is recommended for the control of bacteria and fungi in soluble and emulsifiable type aqueous metalworking fluids, such as emulsified petroleum oils, and formulations containing alcoholic fatty acid, sulfonated red oil, or naphthalene sulfonate and water based conveyor lubricants. These fluids are usually prepared by diluting the product concentrates 1:50 with water.

Metal Working Fluids: For the maintenance of a non-fouled system, use the diluted Mergal®CM1.5 Microbiocide at 22 ml per 100 L of emulsion every 4 weeks, or 22- 100 ml per 100 L of emulsion every 8-12 weeks. For a noticeably fouled system use initial dose of 43- 100 ml per 100 L of emulsion to be followed by subsequent dosages depending upon the treatment interval noted above. The higher dosage range or increased frequency of treatment may be required depending on rate of dilution of the preservative with makeup fluid, the nature and 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.

Conveyor Lubricant: These fluids are prepared by diluting the product concentrated 1:50 to 1:400 with water. The concentration of Mergal®CM1.5 Microbiocide added to ensure final use dilution will contain 200-1000 ppm of Mergal®CM1.5 Microbiocide (3 – 15 ppm active ingredient). Grossly contaminated systems must be cleared before treatment is begun. For initial dose in a notably fouled system meter 1 L of Mergal®CM1.5 Microbiocide per 1000 L of use dilution conveyor lubricant. If necessary, continue metering 400 ml to 1 L of Mergal®CM1.5 Microbiocide per 1000 L of conveyor lubricant until control is achieved and maintain the final use dilution at 400 – 1000 ppm (6 – 15 ppm active ingredient). After establishing microbial control or to prevent fouling of a clean system, maintain Mergal®CM1.5 Microbiocide at 3-15 ppm active ingredient by metering 200 ml to 1 L per 1000 L of conveyor lubricant.

PROCESS WATER SYSTEMS:

Oil Field Injection Waters: For the control of slime-forming bacteria and sulphate-reducing (sulphide-forming) bacteria in oil field injection waters. Slug treat with 70 to 360 ppm of Mergal®CM1.5 Microbiocide as supplied in accordance with the severity of bacterial contamination.

Add 180-360 ppm of Mergal®CM1.5 Microbiocide as supplied (17.8 to 35.6 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 70 – 180 ppm of Mergal®CM1.5 Microbiocide as supplied (7.1 to 17.8 litres per 100 tonnes of water) every seven days or as needed to maintain control.

STORAGE:

Keep container closed when not in use. Do not contaminate water, food or feed by storage, cleaning of equipment or disposal of waste. Open dumping is prohibited. This product is corrosive to mild steel. Do not store or transport in unlined metal containers.

DISPOSAL:**NON-RETURNABLE CONTAINERS:**

1. Triple or pressure-rinse the emptied container thoroughly and add the rinsings to the treatment site.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal or reconditioning.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

RETURNABLE BULK CONTAINERS:

Do not reuse this container for any purpose. For disposal this empty container may be returned to the point of purchase (distributor/dealer). Close all valves prior to return.

PRODUCT:

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 information on the clean-up of spills.

Date of Manufacture:

NOTICE TO USER:

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