Sooner Energy Services
a Flotek company

MECT-WS-1
Microbiocide

MECT-WS-1 is a dry blend of two microbiocidal actives containing 8% Methylene bis (thiocyanate) and 8% 2-(Thiocyanomethylthio)benzothiazole in water dispersible matrix. The product is packaged in water soluble bags for convenience and ease of application.

MECT-WS-1 is a broad-spectrum microbiocide that is effective in the control of bacteria, fungi, and algae. The product is approved for use in petroleum industry in production enhancement, drilling fluids, and secondary recovery operations. The convenient packaging of MECT-WS-1 makes it especially useful in full-service water treatment applications or in applications where microbiocides are fed by hand.

Methods of Application

Drilling, Production Enhancement, and Rework Fluids: To inhibit bacterial and fungal degradation of the fluids and muds used in the drilling, stimulation treatments, and rework of oil and gas wells, MECT-WS-1 should be added at concentrations of 4-24 1-lb bags/1000 gal of fluid. The product should be added to the water used do make up the fluids to ensure adequate dispersal of the microbiocide.

Petroleum Secondary Recovery: MECT-WS-1 can be used to control microorganisms in oil field water, polymer, or micellar floods, water disposal systems, and other oil-field water systems. MECT-WS-1 should be applied at a rate of 1-4 1-lb bags/4000 gal of water to be treated. Additions should be made from a chemical feed tank either continuously or intermittently to the free water knockouts, before or after injection pumps or other convenient locations.

Contact your Buckman representative for more application information.

Packaging and Handling

MECT-WS-1 is packaged in 3.5-gallon plastic pails with handles and screw top lids. Each pail contains 25 1-lb water soluble bags. The water-soluble bags are packaged in zip-lock bags with 4 1-lb water-soluble bags in each. The packaging is designed to minimize damage caused by intrusion of water. Water-soluble bags must be handled with rubber gloves. **Individual water-soluble bags must never be opened. Zip-lock bags containing MECT-WS-1 must be stored in the original plastic container.**

In the even of a spill, special precautions must be taken to avoid breathing any dust. Improper handling of this product can be injurious to workers. **Observe all safety precaustions shown on the label and in the Material Safety Data Sheet.**

Typical Product Characteristics

Active ingredients:
2-(Thiocyanomethylthio)Benzothiazole…..…...8%
Methylene bis(thiocyanate)……8%
Appearance……Light Yellow Powder
Odor……..……..Slight, organic
Density……..1.03 g/cm^3

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MECT WS (WS 1) F.A.Q.

- **What is MECT WS?**
  MECT WS is a dry powder combination of methylene bis(thiocyanate) (MTC) and 2-(thiocyanomethylthio)be-nzothiazole (TCMTB) in a water-soluble bag.

- **What is the activity of MECT WS?**
  8.0% MTC and 8.0% TCMTB

- **What are the remaining ingredients?**
  While the formulation is proprietary, the remaining ingredients are comprised of surfactants (for dispersal of actives), fillers, and flow agents.

- **How is MECT WS packaged?**
  MECT WS is packaged in water-soluble bags as quarter-pound units (WS) or one-pound units (WS 1). The water-soluble bags are packaged in 5-lb lots contained in zip-lock bags for protection from moisture. The zip-lock bags are further packaged in plastic pails with screw-top lids. The plastic pails contain 25 lb of product.

- **The plastic pails have "easy-open" lids but are often difficult to open.**
  The lids are easy to open; however, during packaging and palletizing the lids may become pressed down below the screw-off track. To open, you should pull the lid up evenly until it slides into the track and then open.

- **How should the product MECT WS be handled?**
  The MSDS should be carefully read and all recommendations followed. When feeding MECT WS, rubber gloves should be used to handle the water-soluble bags. As always, safety glasses or goggles should be worn when handling chemicals.

- **How should the product be stored?**
  MECT WS must always be store in the original plastic pail. The product should be stored in a dry area to prevent exposure to water.

- **The product is a white-to-tan powder but sometimes develops a pink cast. Is this a problem?**
  The product may take on a pink shade when exposed to light. This does not affect product efficacy.

- **How should MECT WS be fed?**
  The product should be fed to the system where adequate flow will ensure dispersal. If placed in a low flow area, the product may not readily disperse. The water-soluble bags should fed the same time water is added to the containment or tank.

- **Can the product be removed from the water-soluble bag prior to use?**
  No. The product must be fed with the bag intact.

- **How long does it take for the water-soluble bags to dissolve?**
  The water-soluble bags will dissolve within minutes when exposed to water. Once the water-soluble bag has dissolved, the product will disperse readily if placed in an area of adequate flow.

- **How does the efficacy of MECT WS compare to liquid forms of the product, such as MECT 5?**
  Laboratory tests indicate no significant difference in the efficacy on an equal active basis.