

# **BARDAC 2250M**

SOLUTION

Winterized

**TWIN-CHAIN QUATERNARY AMMONIUM COMPOUND CONCENTRATE**

Water Treatment Microbiocide and For Oil Field Water Flood or Salt Water Disposal Systems and Fracturing Fluids, Flow back return water, Oil Field Injection and Waste Water, Drilling, Completion and Workover Fluids Systems, Packer Fluids

## **COMMERCIAL**

**ACTIVE**

**INGREDIENTS :**

Didecyl dimethyl ammonium chloride 50.0%

### **DANGER**



**POISON**



**FLAMMABLE**



**CORROSIVE**

**CORROSIVE TO EYES AND SKIN**

**READ THE LABEL BEFORE USING  
REGISTRATION NO. 30912 PEST CONTROL PRODUCTS ACT**

NET CONTENTS : \_\_\_\_\_ L

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**BARDAC 2250M** is a winterized microbiocide which remains a thin pourable fluid at -40C. **Bardac 2250M** is ideal for cold weather oil applications. **BARDAC 2250M** will control bacterial slimes found in oil field water flood. When used in slug doses, no other microbiocide is required. **Bardac 2250M** will control sulfate reducing bacteria (SRB) and slime forming bacteria in oil well drilling, oil field water floods and salt water disposal systems.

**BARDAC 2250M** is economical to use because it is concentrated. It should be handled with care.

#### DIRECTIONS FOR USE:

For the control of slime forming and sulfate reducing bacteria, add **BARDAC 2250M** as per instructions below. Rates for effective control can vary depending on conditions at the site. Adjustments within the ranges below may be required. Product addition must be made with a metering pump. This product must be applied where it will dispense most rapidly and uniformly to the desired area of treatment. Product must be slug fed then fed continuously or on an intermittent basis depending on the degree of system fouling.

Heavily fouled system must be precleaned.

#### **Oil Field Water Flood or Salt Water Disposal Systems (Do not apply in Marine or Estuarine Oil Fields!)**

**Slug:** Inject BARDAC 2250M at 10-40 ppm active (0.2-0.8 L per 10,000 L of water) for up to 16 hours once or twice per week, or as needed to maintain control of the system.

**Intermittent Feed:** Dose at a rate of 5-20 ppm (active) BARDAC 2250M (0.1-0.4 L per 10,000 L of water) for 4-8 hours per day, one to four times a week as needed to maintain control. Add BARDAC 2250M directly from the drum with the proper type of metering equipment.

**Continuous Feed:** Add 5-10 ppm (active) BARDAC 2250M (0.1-0.2 L per 10,000 L of water) continuously.

#### **Fracturing fluids:**

**Slug:** Inject BARDAC 2250M at 10-20 ppm active (0.2-0.4L per 10,000 L of water) for up to 16 hours once or twice per week, or as needed to maintain control of the system.

**Intermittent Feed:** Dose at a rate of 5-20 ppm (active) BARDAC 2250M (0.1-0.4 L per 10,000 L of water) for 4-8 hours per day, one to four times a week as needed to maintain control. Add BARDAC 2250M directly from the drum with the proper type of metering equipment.

**Continuous Feed:** Add 5-10 ppm (active) BARDAC 2250M (0.1-0.2 L per 10,000 L of water) continuously.

**Treatment of flow back return water** (Post Hydraulic Fracturing): Add 0.1-0.4 L per 10,000 L (5-20 ppm active) for 4 to 8 hours per day, one to four times a week as needed to maintain control.

### **Oil Field Injection and Waste Water**

This product must be added to the water handling system at a point of uniform mixing such as the area of addition of make up water to the holding tank.

**Continuous Injection:** Where noticeably fouled, add 0.2-0.8 L per 10,000 L of water (10-40 ppm active) of BARDAC 2250M continuously until the desired degree of control is established. Subsequently treat with 30-100 mL per 10,000 L of water (1.5-5 ppm active) of BARDAC 2250M continuously or as needed to maintain control.

**Batch Treatment:** Where noticeably fouled, add 0.2-0.8 L per 10,000 L of water (10-40 ppm active) of BARDAC 2250M. Repeat treatment 1 to 5 times per week or as needed to establish control. Subsequently treat with 60-400 mL per 10,000 L of water (3-20 ppm active) of BARDAC 2250M. Repeat treatment as needed to maintain control.

### **Drilling, Completion, Packer Fluids and Workover Fluids Systems**

While the fluid is being made up, inject BARDAC 2250M via a suitable chemical pump at a point of good mixing such as circulating mud tank. Add chemical at a rate of approximately 240-480 ppm active. For packer fluids: Seal the fresh packer fluid in the wall between the casing and the production tube.

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.**

CORROSIVE to the eyes and skin. Causes irreversible eye damage and skin burns. Methanol may cause blindness. Do not get in eyes, on skin or on clothing. Fatal if swallowed, inhaled or absorbed through the skin. Do not inhale vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. When handling this concentrate wear goggles or a face shield, chemical-resistant gloves, long pants, a long-sleeved shirt, and shoes plus socks. Wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval # prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge with any N, R, P or HE prefilter. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Follow the manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**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 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 convulsion may be needed.

**ENVIRONMENTAL HAZARDS:**

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. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. The requirements of applicable laws should be determined before using the product.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty 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.