

# BIOP1

ANTIMICROBIAL SOLID FORM: Controls  
bacteria in oil recovery operations.

**INDUSTRIAL**



**DANGER POISON**



**DANGER CORROSIVE**

**READ THE LABEL BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

**GUARANTEE:**

2,2-Dibromo-3-nitrilopropionamide....97.6%

**REGISTRATION NUMBER: 25895.03**

**PEST CONTROL PRODUCTS ACT**

**NET CONTENTS 22.7 Kg**

**CENTURY OILFIELD SERVICES INC**  
300-404 Sixth Avenue S.W.  
CALGARY ALBERTA T2P 0R9

## **PRECAUTIONS**

**DANGER \* CAUSES SEVERE BURNS OF EYES \* EYE CONTACT MAY CAUSE LOSS OF VISION  
\* MAY BURN THE SKIN \* MAY BE HARMFUL OR FATAL IF SWALLOWED**

Do not get in eyes, on skin, or on clothing. Chemical worker's goggles must be worn when handling. Wash thoroughly after handling. Avoid breathing dust. Use with adequate ventilation.

## **FIRST AID**

**In case of eye contact**, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**In case of skin contact**, immediately wash skin with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists.

**If swallowed**, immediately induce vomiting by giving two glasses of water and sticking finger down throat.

Repeat until vomit is clear. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

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

**TOXICOLOGICAL INFORMATION:** Treat symptomatically

**DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS, OR CLOTHING**

## **ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

## **DIRECTIONS FOR USE**

NOTE: Add **BIOP1** separately to the system. Do not mix it with other additives, in order to avoid decomposition of **BIOP1** due to the high pH of many additive formulations.

## **OIL FIELD APPLICATION**

For reduction of bacterial contamination and degradation in oil recovery operations, add **BIOP1** to the system at a rate of 0.2 to 16 ppm.

## **FRACTURING FLUIDS**

**BIOP1** reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulation. **BIOP1** should be added to the water storage tanks before gelling and circulated to ensure mixing.

**BIOP1** can be pre dissolved in warm water and added at the well head for "on the fly" fracturing jobs. Use all pre-dissolved liquid within 24 hours. Frequency and Dose: **BIOP1** should be added at a rate of 5 to 16 ppm (5-16 g/1000 L) depending on water quality. Retreat after 48 hours if the frac job is delayed.

## **ENHANCED OIL RECOVERY (EOR) FLUIDS**

**BIOP1** reduces bacteria contamination and degradation of EOR polymers and gels.

**BIOP1** should be added to injection water before polymer addition. Frequency and Dose: **BIOP1** should be added at a rate of 0.2 to 16 ppm (0.2-16 g/1000 L). Dry **BIOP1** should be added at a point to ensure proper dissolution and mixing.

## WATERFLOOD

**BIOP1** can be used to control slime and corrosion causing bacteria in waters used for secondary oil and gas recovery. **BIOP1** can be added as a dry product or pre-dissolved in warm water. Use all predissolved liquid within 24 hours. If the system is heavily fouled, slug treat at the higher rate to remove biofilm.

For maintenance, batch treat two to three times per week. Frequency and Dose: **BIOP1** should be added at a rate of 0.2 to 16 ppm (0.2 g/1000 L). Dry **BIOP1** should be added at a point to ensure proper dissolution and mixing.

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. To maintain product quality, store in a cool, dark place at temperatures below 35° C (95° F). Keep container tightly closed when not in use.

**NOTICE TO USER:** This 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 a control product under unsafe conditions.

### **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.

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