

2022-2441  
2022-07-29

# WB-104

Solution Industrial Antimicrobial

For use with closed loading and transfer systems only (i.e., dry coupling)

COMMERCIAL: READ THE LABEL BEFORE USING

ACTIVE INGREDIENT: Tetrakis (hydroxymethyl) phosphonium sulfate 75%

REGISTRATION NO: 34580

PEST CONTROL PRODUCTS ACT



DANGER POISON  
CORROSIVE TO EYES  
SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

Net Contents:



**Canadian Energy**  
SERVICES

Canadian Energy Services LP  
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Calgary, AB T2P 0B2  
403-269-2800

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## **DIRECTIONS FOR USE:**

Note: WB-104 is incompatible with 2-mercaptobenzothiazole, a component of some corrosion inhibitors.

WB-104 concentrate can be corrosive for copper, brass, mild steel, cast iron and zinc. Equipment used to dispense WB-104 concentrate (e.g., pumps, piping, containers) containing these metals should be avoided.

## **OILFIELD OPERATIONS**

WB-104 is effective in controlling problematic bacteria encountered in oilfield applications. It is used to control sulphate reducing bacteria (SRB) and general heterotrophic bacteria, such as Pseudomonas species.

WB-104 is suitable for applications that involve the injection of treated water into a hydrocarbon bearing reservoir to improve production (productivity) of hydrocarbons from that reservoir. It controls bacterial growth within the injection system and within the rock matrix of the hydrocarbon reservoir.

### **For Treating Water Floods**

Heavily fouled systems must be cleaned before treatment.

**Treatment Point:** WB-104 must be added via an injection pump to the injection system either immediately before or after the de-aerator, which is usually the primary source of contamination. WB-104 must be added at the wellheads or available application points as far upstream as possible in production and distribution systems.

**Initial Treatment:** Based on the water injection volume, apply WB-104 at a maximum of 330 mg of product per litre of water for 1 to 3 hours. Afterwards, follow directions for maintenance treatment.

**Maintenance Treatment:** Apply continuously at a concentration of up to 55 mg of WB-104 per litre of water injected. Alternatively apply 330 mg of product per litre of water for 1 to 3 hours once or twice per week.

## **PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND/OR UNAUTHORIZED PERSONNEL.**

- Corrosive to the eyes and causes skin irritation. Do not get in eyes, on skin or on clothing.
- Fatal or poisonous if swallowed.
- Potential skin sensitizer. Prolonged or frequent skin contact may cause allergic reactions in some individuals.
- Avoid forming aerosols. Avoid the formation of mists in the atmosphere
- Formaldehyde can be released during use of this product. It is recommended that this product not be used in circumstances which would result in formaldehyde air concentrations in the workplace exceeding the exposure levels established by occupational health and safety authorities in your jurisdiction. If values exceed this level, it is recommended that NIOSH approved respiratory protection is worn.
- Wear coveralls over long sleeved shirt and long pants, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading, application, cleanup, and repair.
- Wear respiratory protection device.
- Wear protective eyewear
- Avoid contamination of food.

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**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/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 mouth-to-mouth, if possible. 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. Treat symptomatically.

**ENVIRONMENTAL PRECAUTIONS:**

This product is TOXIC to aquatic organisms. DO NOT discharge effluent containing this product or the biocide produced into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters unless the effluent has been detoxified by suitable means.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**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.

For information on the 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.