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WB-104E

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 20%

REGISTRATION NO: 35131

PEST CONTROL PRODUCTS ACT



DANGER POISON
CORROSIVE TO EYES
SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

Net Contents:

Canadian Energy Services LP
1400, 332 – 6th Avenue SW
Calgary, AB T2P 0B2
403.269.2800

DIRECTIONS FOR USE:

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

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

1. OILFIELD OPERATIONS

WB-104E 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-104E is used in water flood (water injection) applications whereby it controls bacterial growth within the injection system and within the rock matrix of the hydrocarbon reservoir.

Dosing of WB-104E in Water Floods:

Heavily fouled systems must be cleaned before treatment.

Dosing Point: WB-104E must be added continually via an injection pump, to the injection system either immediately before or after the de-aerator, which is usually the primary source of contamination.

Initial Dose: Based on the water injection volume, shot dose WB-104E at a maximum of 1250 mg of product per litre of water for 1 to 3 hours. Follow directions for maintenance doses afterwards.

Maintenance doses: Dose continuously at a concentration of up to 200 mg of WB-104E per litre of water injected.

2. EVAPORATIVE RECIRCULATING COOLING TOWERS

WB-104E is used to control problematic bacteria and algae encountered in evaporative recirculating cooling systems. It is used to control general heterotrophic bacteria, sulphate reducing bacteria and blue, green filamentous and unicellular algae. Heavily fouled systems must be cleaned before treatment.

Dosing Point: WB-104E must be dosed, via a chemical injection pump, into the water system at a suitable point to ensure efficient mixing of the product with the system water. Typically, this will be into the sump or tower basin, where treated water will be circulated throughout the system.

Clean Systems: Shot dose at 95 – 500 mg of WB-104E per litre of water in the system. Repeat up to four times a day.

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.

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.

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 into sewer systems, lakes, streams, ponds, estuaries, oceans, or other waters.

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 instruction 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/territorial requirements.

For information on the disposal of unused, unwanted product contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial 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.