

GREENCIDE 25G

ANTIMICROBIAL

Solution

A MICROBIOCIDIC FOR USE IN CONTROLLING SULFATE REDUCING AND SLIMEFORMING BACTERIA IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS, GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS AND GAS STORAGE FIELDS AND EQUIPMENT; SUCH AS STEAM-INJECTION WATER HOLDING TANKS, FLOOD WATER, INJECTION WATER, HOLDING POND WATER, DISPOSAL-WELL WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND RELATED REFINERY AND OIL FIELD CLOSED INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS.

COMMERCIAL

GUARANTEE: Glutaraldehyde..... 25.0%

REGISTRATION NO. 27167
PEST CONTROL PRODUCTS ACT

DANGER CORROSIVE READ THE LABEL BEFORE USING

NET CONTENTS: 20 liters or 210 liters

Nalco Canada ULC
1055 Truman Street, PO Box 5002
Burlington ON, Canada L7R 3Y9

IN CASE OF EMERGENCY, CALL SPECIAL PRODUCTS AT 281-431-2561 OR CHEMTREC AT
1-800-424-9300

PRECAUTIONS: HAZARDS TO HUMANS

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow.

Wear goggles and a face shield, coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, and chemical-resistant footwear and goggles during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Remove contaminated clothing and shoes and wash them before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic organisms. DO NOT apply in marine and/or estuarine oil fields.

FIRST AID

IF IN EYES: Wash immediately and continuously with flowing water for at least 30 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 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 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.

IF SWALLOWED: Contact a poison control centre or doctor immediately for treatment advice. If the person is fully alert and cooperative, have the person rinse mouth with plenty of water. In cases of ingestion have the person drink 120 - 240 mL (4 to 8 ounces) of water. Do not induce vomiting. Do not attempt mouth rinse if the person has respiratory distress, altered mental status, or nausea and vomiting.

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

TOXICOLOGICAL INFORMATION

Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

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 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.

STORAGE AND HANDLING

GREENCIDE 25G Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -10°C. Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 38°C can be tolerated but the preferred maximum storage temperature is about 27°C. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON is suitable for gaskets and packing.

To prevent contamination, store this product away from food or feed.

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. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

DO NOT open pour more than 20 L of concentrate per day. Use an automatic addition system if using more than 20 L of concentrate per day. 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.

WATER FLOODS

GREENCIDE 25G Antimicrobial should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeable contaminated, add 200 to 10,000 ppm GREENCIDE 25G Antimicrobial to the system (0.8 to 37.9 Liters GREENCIDE 25G Antimicrobial per 3785 Liters flood water). Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 40 to 10000 ppm GREENCIDE 25G Antimicrobial (0.15 to 37.9 Liters GREENCIDE 25G Antimicrobial per 3785 Liters flood water) to the system weekly, or as needed to maintain control.

DRILLING MUDS / DRILLING, COMPLETION, WORKOVER FLUIDS

GREENCIDE 25G Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 100 to 2000 ppm GREENCIDE 25G Antimicrobial (1.5 to 30.3 liters GREENCIDE 25G Antimicrobial per 100 barrels of fluid) to a freshly prepared drilling fluid, depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 100 to 2000 ppm GREENCIDE 25G Antimicrobial by adding 1.5 to 30.0 of GREENCIDE 25G Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

GREENCIDE 25G Antimicrobial should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 100 to 1200 ppm GREENCIDE 25G Antimicrobial (1.5 to 18.9 Liters GREENCIDE 25G Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid, depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

GREENCIDE 25G Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure a maximum distribution of the GREENCIDE 25G Antimicrobial through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the GREENCIDE 25G Antimicrobial with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS

Individual wells should be treated with sufficient quantity of GREENCIDE 25G Antimicrobial to produce a concentration of 1000 to 10000 ppm GREENCIDE 25G Antimicrobial when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of GREENCIDE 25G Antimicrobial to produce a concentration of 400 to 4000 ppm GREENCIDE 25G Antimicrobial when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 200 to 8000 ppm GREENCIDE 25G Antimicrobial (0.8 to 30.3 Liters GREENCIDE 25G Antimicrobial per 3785 Liters water) depending on water quality and length of time the equipment remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS

Add GREENCIDE 25G Antimicrobial to a slug of water immediately following the scraper (ideally this water

volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient GRENCIDE 25G Antimicrobial should be added to produce a concentration of 0.2 to 2% (0.8 to 7.6 Liters, GRENCIDE 25G Antimicrobial per 3785.5 Liters water), depending on the length of the pipeline and the severity of biofouling.

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